

THE
Canadian Society of Civil Engineers.

112 MANSFIELD STREET, MONTREAL.

(Established Feb. 24, 1887; Incorporated by Dominion Act, June 23, 1887)

(50 VIC. CAP. 124.)

CHARTER, BY-LAWS
AND
LIST OF MEMBERS.

1899.

Montreal:
PRINTED FOR THE SOCIETY,
BY JOHN LOVELL & SON.

The right of publication and translation is reserved.

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CHARTER

OF

The Canadian Society of Civil Engineers.

(INCORPORATED JUNE 23RD, 1887.)

WHEREAS the persons hereinafter named have, by petition, set forth that it is desirable that they, together with such other persons as may be hereafter associated with them, be incorporated into a society by the name of "The Canadian Society of Civil Engineers," having for its objects and purposes to facilitate the acquirement and interchange of professional knowledge among its Members, and more particularly to promote the acquisition of that species of knowledge which has special reference to the profession of civil engineering, and further to encourage investigation in connection with all branches and departments of knowledge connected with the profession; and whereas it is expedient to grant the prayer of the said petitioners; therefore, Her Majesty, by and with the advice and consent of the Senate and House of Commons of Canada, enacts as follows:—

1. Thomas C. Keefer, Ottawa; Casimir S. Gzowski, Toronto; John Kennedy, Montreal; Henry T. Bovey, Montreal; Frederick N. Gisborne, Ottawa; Edmund P. Hannaford, Montreal; William T. Jennings, London; Samuel Keefer, Brockville; Louis Lesage, Montreal; Hugh D. Lumsden, Toronto; Alan Macdougall, Toronto; Henry F. Perley, Ottawa; Hurd Peters, St. John, New Brunswick; Peter A. Peterson, Montreal; Henry S. Poole, Stellarton, Nova Scotia; Henry N. Ruttan, Winnipeg; Collingwood Schrieber, Ottawa; Percival W. St. George, Montreal; and Herbert Wallis, Montreal, and all other persons who may hereafter be associated with them, shall be and they are hereby constituted a body politic and corporate, under the name of "The Canadian Society of Civil Engineers."

2. The said Society shall have power to acquire and hold all lands and property necessary and required, in order to carry out the objects and purposes for which incorporation is sought, provided that the annual value of the real estate, held at any one time for the actual use of the Society, shall not exceed five thousand dollars; and the said Society shall also have power to sue and be sued, and implead in their corporate name; and to make and pass regulations and by-laws for the direction and management of the said Society, including all rules that may be deemed necessary for the maintenance of the honour and dignity of the profession.

3. The said Society shall be governed by a President, Vice-Presidents and Council, to be constituted in such manner as may be provided by the by-laws hereafter to be made, and the persons named in the first section shall constitute such Council, until such appointments are made.

4. A meeting of the said Council shall be held within six months after the incorporation of the Society, for organization, making by-laws, the election of officers, and the transaction of any other business that may arise.

5. The head office of the Society shall be in the city of Montreal, or in any such other place as may from time to time be determined by a vote of two-thirds of the Members of the Society.

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BY-LAWS

OF

The Canadian Society of Civil Engineers.

NAME AND OBJECTS.

1. This Society shall be called "The Canadian Society of Civil Name of Engineers." Society.

2. The term "Civil Engineer," as used in this Society, shall mean Definition of Civil Engineers all who are, or have been, engaged in the designing or constructing of railways, canals, harbours, lighthouses, bridges, roads, river improvements or other hydraulic works, sanitary, electrical, mining, mechanical or military works, or in the study and practice of navigation by water or air, or in the directing of the great sources of power in nature for the use and convenience of man.

3. The objects of this Society shall be (1) to facilitate the acquire- Objects of ment and interchange of professional knowledge among its mem- Society. bers, and (2) to encourage original investigation.

CONSTITUTION AND MEMBERSHIP.

4. The Society shall consist of Honorary Members, Members, Associate Members, Associates and Students. Honorary Members shall Composition of Society. not be subject to fees or dues, and shall not be entitled to vote, unless they have previously been Members, in which case they shall retain the right to vote and hold office. Members and Associate Members shall be styled "Voting Members." Associates and Students shall possess all the rights and privileges of Members and Associate Members, except the right to vote or to hold any office but that of Librarian.

**Titles of
membership.**

5. Any Honorary Member, Member, Associate Member, Associate or Student, having occasion to designate himself as belonging to the Society, shall state the class to which he belongs, according to the following abbreviated forms:—Hon. M. Can. Soc. C. E., M. Can. Soc. C. E., A. M. Can. Soc. C. E., A. Can. Soc. C. E., Stud. Can. Soc. C. E.

QUALIFICATION FOR ELECTION AS MEMBERS.**Qualification
of Honorary
Members.**

6. Honorary Members shall be distinguished men, eminent in engineering or kindred sciences.

**Qualification
of Members.**

7. Every candidate for election as Member must be at least thirty years of age, and must have been engaged in some branch of Engineering for at least ten years, which period may include apprenticeship, or pupilage in a qualified Engineer's office, or a term of instruction in some school of Engineering recognized by the Council. The term of ten years will be reduced to eight years in the case of any candidate who has graduated with honours in his Engineering course. In every case the candidate must have had responsible charge of work for at least five years, and this not merely as a skilled workman, but as an Engineer qualified to design and direct Engineering works.

**Qualification
of Associate
Members.**

8. Every candidate for election as an Associate Member must have been engaged in some branch of Engineering for at least five years, which period may include apprenticeship or pupilage in a qualified Engineer's office, or a term of instruction in some school of Engineering recognized by the Council. In every case the candidate must have held a position of professional responsibility for at least two years.

**Qualification
of Associates.**

9. Every candidate for election as Associate shall be one who is not a Civil Engineer by profession, but whose pursuits, scientific acquirements or practical experience qualify him to co-operate with Engineers in the advancement of professional knowledge.

**Qualification
of Students.**

10. Every candidate for election as Student must be at least sixteen years of age, and must present a certificate of having successfully passed an examination, equivalent to the final examination of a High School or the matriculation of an Arts or Science course, and must be pursuing a recognized course of instruction in some branch of Engineering, or be receiving a practical training in the profession. He shall not remain in the class of Students more than nine years.

MANNER OF ELECTION OF MEMBERS.

11. Honorary Members must be nominated by a unanimous vote ^{Mode of} of the Council, one month's notice having been given to the members ^{of election of} of the said Council of the names of the nominees, and of the meeting at which it is proposed to make the nomination. The election of Honorary Members shall be by vote of the Members of the Society, given in the same manner as in the election of Members. The number of Honorary Members shall not, at any one time, exceed twenty.

12. The Secretary shall notify by letter the Honorary Member ^{of Notice of} of his election, and shall request him to notify the Society of his acceptance ^{of election of} of the same within six months. Failing such acceptance ^{Hon. Member.} his election will be void.

13. Proposals for admission to the Society as Member, Associate ^{Mode of} Member or Associate (Form A in the Appendix), or for a transfer ^{election and promotion to} from one class to a higher (Form B in the Appendix), shall contain several classes a statement over the candidate's signature, of his age, residence, and the nature and term of his professional service, also an agreement to conform to the regulations of the Society if elected or promoted. The applicant shall give as references at least five Voting Members, from whom the Council shall obtain satisfactory evidence in writing that they personally know the candidate, and that he is worthy of acceptance or promotion. The proposals for Students shall be signed by the applicant and endorsed by one Voting Member.

14. Elections for any class, or for transfer, shall be by vote of Ballot, the Members taken by letter ballot according to a form to be prescribed by the Council, and such ballot shall be taken at the first ordinary meeting held after the lapse of at least twenty-five days from the date of mailing the notification. If ten per cent. of the votes cast be negative, the candidate shall be excluded, and in such case no record of the transaction shall be kept. Provided, however, that should the Council require that an examination be passed by any candidate for admission into the Society, or for transfer from one class into another, or should any candidate request to be admitted or transferred by examination, then the Council may admit or transfer the candidate thus, provided he pass such examination as the Council may prescribe.

15. On the election of a candidate, he shall be immediately notified ^{Notification of} by the Secretary (Form C in the Appendix). On receipt of the election, notification he must subscribe to the Constitution and By-Laws (in

the terms set forth in Form D in the Appendix), and pay to the Treasurer the regular fees (see Articles 18, 19 and 19a) before he can be entitled to the privileges of membership. Should he fail to do so within six months from the date of the notification of his election, he shall cease to be a Member. Membership shall date from the day of the election.

Certificates of Membership.

16. All certificates of membership issued to Members are the property of the Society, and must be returned by any Member who has resigned, or whose name has been removed from the roll of membership, within one week of his receipt of notice of such removal or acceptance of resignation.

EXPULSION.

Expulsion

17. Upon the request of ten or more Members, that, for causes specified, a Member of the Society should be expelled, the Council shall consider the matter, and, if there should be sufficient reason, shall advise the said Member that his resignation will be accepted. He may upon demand receive a copy of the charges against him, and present a written defence. Two months after such action on his part the Council shall finally consider the case, and if resignation has not been tendered, or a satisfactory defence made, will then notify the Member that he will be expelled in one month, unless he elects to appeal from this decision, in which case his appeal shall be voted on by letter ballot.

Neither the Council nor the Members bringing the charge shall vote. If ten per cent. of the votes are for expulsion, the Member shall be expelled, and the Council shall notify the said Member and the Society of the result. In case no appeal is made, the Council shall expel the said Member, and notify him and the Society of his expulsion, and such notification shall in any event be the only notice, public or private, taken of the matter.

DUES.

Definition of resident and non-resident Members.

18. Members, Associate Members, Associates and Students who reside within 50 miles of the headquarters of the Society shall be deemed resident; those who reside beyond the limit of 50 miles shall be deemed non-resident.

Annual Fees.

19. Each resident Member shall pay \$10.00, and each non-resident Member, \$8.00 per annum. Each resident Associate Member shall pay \$8.00, and each non-resident Associate Member, \$6.00 per annum. Each Associate shall pay \$10.00 per annum. Each Student shall pay \$2.00 per annum.

19a. Every new Member or Associate Member shall upon admission to the Society pay a fee of \$20.00, but no additional payment other than the increased annual subscription shall be due from an Associate Member upon his transfer to membership.*

20. Every person admitted to the Society shall be liable for all Resignation dues until he shall have signified to the Secretary, in writing, his desire to withdraw, when, if his dues have been fully paid up, his name will be omitted from the list of membership.

21. All annual subscriptions shall become due on the first day of ^{Annual Fees} January in each year for the year then commencing, but no Member ^{due on Jan. 1st.} shall be considered in arrears for any year until after the first day of April of that year. It shall be the duty of the Secretary to notify each Member of the amount due for the ensuing year, at the time of giving notice of the annual meeting.

22. No Member or Associate Member whose dues are in arrears ^{Members in arrears have no vote.} shall be allowed to vote. Any person admitted into the Society, who shall refuse to pay any dues, or who shall neglect the same for six months after notice thereof shall have been issued (Form C in the Appendix), may, by a vote of the Council, be struck off from the roll of membership.

23. Any Member who, for non-payment of dues, has been struck off the roll of membership, may again, if the Council approves, join ^{on roll of Membership.} the Society on payment of all arrears, and on payment of such entrance fee as may hereafter be agreed upon.

24. The amount of the annual dues, to be paid for the support of the Society, may be changed from time to time at the Annual General Meeting of the Society, provided that notice of intended action thereon shall have been given to the Members two months previously by circular. No alteration in the amount of said fee shall apply to the fiscal year during which it is made, but shall take effect on and after the first day of January next succeeding the date of such alteration. Those who become resident or non-resident by removal of residence shall be subject to the dues of the class to which they belong at the date of the Annual Meeting, as may be shown by the records of the Society, or by a written notice to the Secretary.

25. Any Member may compound his fee, and become a Life Member ^{Compounding of Fees.} on payment of a sum of \$150.00, which is to be invested by the Council, the interest only to be used for current expenses.

* The by-law (1897) will come into force for all persons making application for admission after Nov. 1st, 1898; except as modified by the Act respecting Civil Engineers in the Province of Quebec.

**Exemption
from payment
of dues.**

26. The Council may, for sufficient cause, exempt from payment of annual dues any Member, distinguished in his professional career, who from ill-health, advanced age, or for other good reason assigned does not continue to carry on a lucrative practice, and is unable to pay such dues. The Council may remit the whole or part of any arrears, or accept in lieu thereof desirable additions to the Library and Museum.

OFFICERS.**Officers.**

27. The officers of the Society shall consist of a President, three Vice-Presidents, a Treasurer, a Secretary, a Librarian; the last three surviving Past Presidents who continue to be Members, who shall be styled Honorary Councillors; and fifteen Councillors. Of the fifteen Councillors, not more than three may be Associate Members.

COUNCIL.**Composition of
Council.**

28. There shall be a Council, consisting of the President, Vice-Presidents, Treasurer, Secretary, Honorary Councillors and Councillors, and of this Council five shall constitute a quorum. The Members of Council shall retain their position until their successors have been appointed.

MANAGEMENT.**Chairman of
Society
meetings.**

29. The President, or, in his absence, one of the Vice-Presidents, or, in their absence, a Member of Council, shall preside at all meetings of the Society. In the event of the absence of the President and of all the Vice-Presidents and Members of Council, the meeting may select any Member as Chairman.

**Duties of
Secretary.**

30. The Secretary shall keep an accurate record of the transactions of the Society and of the Council. He shall also keep a correct roll of Members' names with their addresses and dates of their admission. He shall conduct the correspondence of the Society, give notice of all meetings, supervise the printing, and, under the direction of the Council, edit the transactions of the Society.

**Duties of
Treasurer.**

31. The Treasurer shall have charge of the funds of the Society, shall receive all money and pay all accounts and orders approved of by the President, or by the Chairman of Finance or Library Committee. He shall also deposit and invest the Funds of the Society in its name, and always with the approval of the Council. All accounts exceeding \$10 shall be paid in cheques, which shall be signed by the Treasurer and countersigned by one member of the Finance Committee.

32. The Librarian shall take charge of the Library of the Society, ^{Duties of Librarian.} shall mark all books with the name of the Society, and shall number and record them in a catalogue. He shall also conform to such regulations as may be prescribed by the Library Committee.

33. The Council shall have general supervision of the affairs of the ^{Duties of Council.} Society, shall prepare by-laws, shall approve and classify candidates before submitting their names to ballot, shall fill up vacancies as they occur amongst its members, shall apply funds in the treasury, shall recommend the amount of appropriations for specific purposes, and shall present a report on the affairs of the Society, embracing the report of the Treasurer, at the Annual Meeting. In no case shall the Council incur any expenditure for extraordinary purposes unless previously authorized to do so at the Annual Meeting or at a special general meeting.

The Council shall meet as often as the business of the Society ^{Meetings of Council.} may require.

34. The Council shall meet within one week after its election, and shall appoint, firstly, a Standing Committee of five on Finance, ^{Composition and Duties of Standing Committee.} which shall have supervision of accounts of the Society, shall audit the books of the Treasurer, and shall certify to his annual report; and, secondly, a Library Committee of five, which shall have supervision of the rooms, and shall apply to the purchase of books, or other articles of permanent value to the Society, such sums as may be granted for that purpose. Three members of such committees shall constitute a quorum. ^{Finance Committee.} ^{Library Committee.}

NOMINATION AND ELECTION OF OFFICERS.

35. A Nominating Committee of eight Voting Members, elected annually, and of the last three surviving Past Presidents, who continue to be Members, shall draw up a list of names of such Voting Members as, in its opinion, are qualified to fill the offices of President, Vice-Presidents, Treasurer, Secretary, Librarian and Councillors for the ensuing year, and who shall, previously to their names being entered on the list, have signified to the Committee, in writing, their willingness to accept their several nominations. ^{Nomination and Election of Officers.}

This list shall contain at least thirty-four names of Voting Members, viz.: one for President, five for Vice-Presidents, one for Treasurer, one for Secretary, one for Librarian, and twenty-five for Councillors; and, of the twenty-five nominated as Councillors, at least seven must be resident at headquarters. The list shall be signed by a majority of the Nominating Committee.

Dates on which list must be submitted.

36. The Nominating Committee shall forward this list to the Council not later than the 1st of October of the current year, and a copy of the list shall be sent by the Secretary to each Voting Member of the Society not later than the fifteenth of the said October.

Additional nominations.

37. Any twelve Voting Members, of whom not more than four may be Associate Members, may present to the Council, on or before the fifteenth of November of the current year, a list of names proposed by them for officers, such list to be accompanied by the nominees' acceptance of nomination, in writing. A copy of such list shall also be sent by the Council to each Voting Member not later than the following first of December.

Name of Nominators to be printed on list.

38. The list issued by the Nominating Committee shall be headed as such; and the names of the nominators of any list, other than that issued by the Nominating Committee, shall be printed at the head of such list as the nominators of the same.

Withdrawal of consent.

39. Should any Member, who has consented to be nominated for any office, wish to withdraw his consent, he must do so in writing not later than the fifteenth of September of the current year.

Ballot for Election of Officers.

40. The officers shall be elected by a majority of votes taken by sealed letter ballot. This ballot shall be opened and declared at the Annual Meeting, and the report of the scrutineers shall give the names of all Members who have been elected and number of votes cast for each. In case two or more persons shall equally have received the highest number of votes, the choice shall be made from amongst them by ballot at the meeting.

Persons elected for two Offices.

40a. Any Member may vote for the same person for the offices of President, Vice-President and Member of Council, provided always that, should any Member be elected to more than one office, he must choose which he shall hold, and the vacancy arising from his declining to hold the extra office or offices shall be filled by the Member or Members who shall have received the next highest number of votes, after those already elected to said office or offices.

Appointment of Scrutineers.

41. The scrutineers of the ballot at the Annual Meeting for the election of officers and of the elective members of the Nominating Committee may be named, with the consent of the meeting, by the Chairman. If not thus named they shall be elected by ballot at the meeting.

ELECTION OF THE NOMINATING COMMITTEE.

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42. The Secretary shall send to all Voting Members, at the same time as he sends the list of Members nominated for office, a form of ballot (Form Z) for the election of the elective members of the Nominating Committee. The Voting Members shall elect representatives on the Nominating Committee as follows: those resident in Newfoundland, Nova Scotia, Prince Edward Island and New Brunswick, one member; those resident in the Province of Quebec, two members; those resident in the Province of Ontario, three members; those resident in Canada to the west and north-west of the Province of Ontario, one member; and those not living in Canada or Newfoundland, one member who shall be resident at headquarters.

It shall not be necessary for any member of the Nominating Committee to reside in the District he represents.

43. The ballot for election of members of the Nominating Committee shall be returned to the Secretary of the Society with the ballot for election of officers, and shall be examined and reported on by scrutineers appointed at the same time and in the same manner as the scrutineers for the ballot for the election of Officers.

The Member or Members for each District who shall receive the greatest number of votes shall form the elective part of the Nominating Committee, provided that in case any Member with a majority of votes refuse to act, the Member coming next in order by majority of votes shall be elected, provided, however, that, should the full number of the Committee still fail to be elected, the deficiency shall be supplied by ballot at the Annual Meeting.

The Committee shall elect a Chairman within sixty days of their election, by each Member sending his vote sealed with his name outside the envelope, which shall be endorsed "Vote for Chairman," to the Secretary of the Society, whose duty it shall be, when he has received all the votes, to lay the same before the Council, which shall open the ballot and notify (through the Secretary) the member of the Committee who has been elected Chairman. Should the Committee fail to elect a Chairman within the sixty days above mentioned, the Council shall make the appointment and notify the Committee thereof.

MEETINGS.

44. The meetings of the Society shall be as follows:—

(A.) The Annual Meeting for the election of officers shall be held Annual on the second Tuesday in January, or on such other day in January Meeting, as the Council may direct. The Council shall lay before the meeting

Annual Report. a report of the standing of the Society, with a statement by the Treasurer, verified by the Committee on Finance, of the Funds of the Society, and the receipts and payments during the year ended on the 31st December preceding. Also a list of the meetings held by the Council and the names of those present at each meeting. At such annual meetings, fifteen Voting Members shall constitute a **quorum**. A notice of twenty-one days shall be required for an Annual Meeting.

Special General Meeting.

(B.) Special General Meeting of the Society may be called by order of the Council for the transaction of special business. The quorum at a Special General Meeting shall be fifteen Voting Members.

A notice of twenty-one days shall be given for a Special General Meeting.

Ordinary Meeting.

(C.) Ordinary meetings of the Society shall be held at eight o'clock in the evening, on every alternate Thursday during the months of October, November, December, January, February, March, April and May, commencing with the second Thursday in October; but it shall be in the power of an ordinary meeting to make such changes in these dates as may be deemed advisable.

Order of Business.

The business of an ordinary meeting shall be transacted as nearly as possible in the following order:—

(a.) The minutes of the preceding meeting to be read, approved and signed by the Chairman and Secretary.

(b.) Business arising out of the minutes to be discussed.

(c.) Appointment of Scrutineers and opening of ballot for election of Members.

(d.) Candidates for admission into the Society to be announced.

(e.) Communications from the Council to be considered.

(f.) New business to be proposed and notices of motion to be given.

(g.) Original papers to be read and discussed.

Students' Meetings.

(D.) Students' meetings shall be held at eight o'clock in the evening, at such dates as shall be determined by Council, and of which due notice shall be given.

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45. Changes in the rules and regulations of the Society and new rules and regulations shall not be voted on or adopted, nor shall the expenditure of any funds, for which a vote is necessary, be authorized, unless notice of motion has been given not less than four weeks previously to such vote being taken, so that the Secretary shall have time to notify all Voting Members.

Changes in
rules or special
expenditure
requires notice
of motion,

PAPERS.

46. All papers must be forwarded to the Secretary of the Society, Papers, when they will be examined by the Council, and, if deemed of sufficient interest, copies shall be made and sent to every branch of the Society. Such papers shall be read and presented for discussion at all branches at the same time as at the headquarters of the Society, or as soon thereafter as may be practicable. A report of the discussion at the branches shall be forwarded to the Secretary of the Society within one week after the day fixed for the reading by the Society.

47. The papers shall be the property of the Society, and no publication of any papers or discussion shall be made, except by the property of Society or with permission of the Council.

AMENDMENTS TO BY-LAWS.

48. New by-laws or alteration or repeal of existing by-laws may be made in the following manner. Notification of proposed new by-laws or of alteration or repeal of existing by-laws shall be given to the Council, signed by at least ten Voting Members, not later than three months before the date of the Annual Meeting.

The Council shall issue notice of the proposition, specifying the particular new by-law or alteration or repeal of any existing by-law which may be thus recommended, and submit the same to vote by letter ballot, not less than two months before the Annual Meeting, the ballot to be taken on or before the date of the Annual Meeting, and not less than two-thirds of the votes cast shall be required to effect any change. The Council may also propose new by-laws, or alterations, or repeal of existing by-laws, and may submit the same to vote by letter ballot as above.

BRANCHES.

49. A local branch of the Society may be established under the authority of the Council at the request of not fewer than ten Voting Members, who are desirous of forming themselves into such local

branch in any place not less than one hundred miles from the headquarters of the Society, or from any existing branch. The Members of such branches shall consist of those who join from time to time. The establishment of a branch shall not release Members from any of their obligations to the Society, whether as regards fees or membership in any class.

Name of Branches.

50. Local branches, although formed strictly of Members of the Society, may be distinguished by the name of their locality, as for example, "The.....Branch of the Canadian Society of Civil Engineers."

Officers of Branches.

51. The officers of local branches shall be a Chairman and Secretary-Treasurer, who shall be elected by the Members of the Branch.

Election of Members of Local Branches.

52. All classes of Members of local branches must have been elected by the Society in the usual way, and in no case shall their Members be added to locally or otherwise than in the regularly prescribed way.

Fees of Members of Branches.

53. Members of a local branch shall pay to the Society the fees of a resident Member of the Society, and the Society shall remit to the branch, on application of its Secretary-Treasurer, the difference between a resident and non-resident's fees. The Society shall not be liable for any expenses incurred by a branch.

Meetings of Branches.

54. The regular meetings in all branches shall be held on the same date as the corresponding meetings of the Society at headquarters.

Rules for Branches.

55. In by-laws, rules of order, etc., and in particulars not specially referred to, the branches shall conform to the methods and rules adopted by the Society.

CODE OF ENGINEERING ETHICS.

Duty of the Engineer to his Client.

56. Every member of the Society should perform the work he undertakes to do to the best of his ability and in the true spirit of his engagement, feeling it to be his duty to present all ascertained facts in their true light.

The Client's Obligation to the Adviser.

57. The Civil Engineer has a right to expect from his client the same consideration and deference to his opinion as is by their clients accorded to the members of other professions—Law and Medicine.

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for example--and without which the adviser should decline to advise. The surest way for the Engineer to obtain such necessary consideration and deference from the public will be found in his manner of carrying himself.

58. The Assistant Engineer must loyally obey and support his Chief, to whom it will be his duty to report directly on all matters relating to the work on which they may be jointly engaged. His report should be full and explicit on all important points, and exact to the best of the Assistant's knowledge and belief, cloaking nothing, even though going to show that previous reports had been inaccurate or not duly weighed, in some particulars affecting the well being of the business in hand.

59. The Assistant Engineer is entitled to look to his Chief for, and to receive from him, advice for his guidance in the proper performance of his duties, and, where right, to expect his support in matters in dispute between him (the Assistant) and his subordinates, or between him and the contractors working under him. He is also entitled to the aid of the Chief Engineer's professional experience or counsel where unlooked for or extraordinary difficulties present themselves, or changes of original plan may be called for in the work on which they are associated, so that responsibility may be fairly apportioned between them.

60. It is the duty of both Chief and Assistant, each in his department, to study proper economy in the doing of the work, the management of which they have undertaken, and in every way consistent with the maintaining of the good character of the work to make the client's interest the guiding object.

61. The Engineer may legitimately suggest experiments with a view to improvement, whether in methods of doing the work which he oversees, or for raising its character; but such experiments should only be undertaken with the full consent and co-operation of the party, whether client or contractor, on whom the expense may fall, and on the understanding that to them will accrue all pecuniary benefit from the success of the experiment.

62. It shall be considered unprofessional for any Member of this Society to seek the position of an expert to report on any work that is in charge of a recognized Engineer.

63. It shall be the duty of any Engineer, before examining any work with a view to report thereon, to give the Engineer due notice before going on with the investigation, in order that he may

have every facility to explain and sustain his methods of carrying on the work in question.

Professional Services of Engineers to each other.

Pecuniary Matters, Advertising, etc

Duties of the Engineer to the Public.

64. Interchange of professional assistance between Members, as tending to promote fraternal intercourse and mutual good-will, is not to be discouraged, but neither is it to be considered obligatory on a Member to respond to the request of a Fellow Member for professional counsel or assistance. Service so rendered must be entirely voluntary on the part of the Member whose aid is sought.

65. The Civil Engineer may, consistently with professional status, take out patents for new inventions or for improvements on old ones, and may sell or otherwise dispose of the patents for his own advantage. He may undertake surveys and the engineering of works by contract, or he may take contracts for the construction of works on a percentage of their cost. Advertising with a view to attracting business should, where resorted to, be as far as possible free from egotistic or self-laudatory references, and expressed in language not derogatory to the dignity of the profession.

66. The Civil Engineer whose advice is sought in respect to the usefulness, practicability and cost of a work should, before expressing his opinion, obtain reliable information on all points involved in the matter submitted to his judgment, including the probable paying capacity of the contemplated undertaking. He must be cautious how he recommends large preliminary outlay, should avoid connecting himself with schemes or projects of merely speculative character, always bearing in mind that his professional reputation will be to a great extent judged by the inherent merits and commercial value of the undertakings with which his name may come to be associated.

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CAP. XXXII.

An Act concerning Civil Engineers.

[Assented to 15th January, 1898.]

Whereas by an act of the Parliament of Canada, 50-51 Victoria, chapter 121, "The Canadian Society of Civil Engineers" was incorporated, and it is deemed advisable to establish the qualifications necessary to permit persons to act or practice as civil engineers in the Province of Quebec;

Therefore, Her Majesty, by and with the advice and consent of the Legislature of Quebec, enacts as follows:

1. The following expressions in this act have the meanings hereby assigned to them, unless there is something in the text repugnant to such construction:

(a) The expression: "the society," means the Canadian Society of Civil Engineers;

(b) The expression: "the council," means the council of the said society;

(c) The expression: "corporate member," means a member or associate member of the said society;

(d) The expression: "civil engineer," means any one who acts or practices as an engineer in advising on, in making measurements for, or in laying out, designing or supervising the construction of railways, metallic bridges, wooden bridges, the cost of which exceeds \$600.00, public highways requiring engineering knowledge and experience, roads, canals, harbors, river improvements, light-houses and hydraulic, municipal, electrical, mechanical, or other engineering works, not including government colonization roads or ordinary roads in rural municipalities; but it is not deemed to apply to a mere skilled artisan or workman.

2. On and after the 1st of January, 1899, no person shall be entitled, within the Province of Quebec, to use the title of civil engineer, or any abbreviation thereof, or any name, title or descrip-

tion implying that he is a corporate member of the said society, nor to act or practice as civil engineer within the meaning of the first section of this act:

(a) Unless such person is a corporate member of the society or becomes such under the provisions of this act; or,

(b) Unless he is entitled, by some statute of the Dominion of Canada, of the late Province of Canada, or of the Province of Quebec, to use the title of civil engineer; or,

(c) Unless he is practicing as a civil engineer in this Province, and, within one year from the passing of this act, becomes a corporate member of the society; or,

(d) Unless he is a member of the corporation of land surveyors at the time of the passing of this act, and at any time thereafter becomes a corporate member of the society.

3. The following persons only shall, after the coming into force of this act, be admitted as corporate members of the society to practice in the Province of Quebec:

(a) All persons, being practicing civil engineers within the Province, at the time of the coming into force of this act, who, within one year therefrom, apply for admission to and pay the subscription fees required under the by-laws of the society; the application must be supported by an affidavit verifying the allegations of the application;

(b) All persons who, having been admitted to study under the provisions of this act, shall have passed the prescribed examination and shall have been licensed as civil engineers by the society;

(c) All persons, being members of the corporation of land surveyors of this Province, at the time of the coming into force of this act, who, at any date thereafter, apply for admission to and pay the subscription fees required under the by-laws of the society.

4. A board of examiners, of not less than six persons, who shall be resident in the Province of Quebec, to examine candidates for admission to the study, or for admission to the practice of civil engineering, shall be constituted.

Four members of this board, two of whom must have the proper qualifications and competency to examine all candidates for preliminary and final examinations in French or in English, at the option of the candidate, shall be appointed by the council, one member by McGill University, and one by Laval University.

Three members of the board shall constitute a quorum.

The said board shall meet at least twice each year, at the cities of Quebec and Montreal alternately, on the first Tuesday in May and November.

5. A candidate for admission to study shall:

(a) Give one month's notice to the secretary of the society of his intention to present himself for examination, and at the same time shall pay such secretary the sum of twenty dollars as a fee, one half of which shall be remitted in the event of failure to pass the prescribed examination;

(b) Produce a certificate of good character;

(c) Pass an examination in the following subjects, namely: general geography, that of Canada in particular; history of Canada; arithmetic; elements of geometry; use of logarithms; algebra, up to and including quadratic equations; trigonometry, up to and including the solution of plane triangles.

If successful, the candidate shall be entitled to a certificate that he has passed such examination.

If the candidate holds a certificate of having been admitted to study as a provincial land surveyor, at the time of the coming into force of this act, then such certificate shall be accepted in place of the foregoing examination.

If the candidate holds a degree of Bachelor of Applied Science, Bachelor of Arts, Bachelor of Science, or Bachelor of Letters, conferred upon him by any Canadian or British university, or has graduated from and holds the diploma of the Royal Military College, or holds a diploma as provincial land surveyor in this Province, he shall, on making satisfactory proof that he is the person named in such degree or diploma, be entitled, on payment of the above mentioned fee, to receive a certificate permitting him to study.

6. A candidate for admission to practice shall:

(a) Give one month's notice of his intention to present himself for examination, and, at the same time, pay the secretary the sum of forty dollars, as a fee;

(b) Produce a certificate of good character;

(c) Establish that he is at least twenty-one years of age;

(d) Establish that, since his admission to study, he has been engaged in the pursuit of engineering in the office or in the service of a corporate member of the society for a period of at least five years, or, for a period of two years, if he holds a diploma as a provincial land surveyor in this Province, or has a degree from any college or university in Canada granting degrees or diplomas in applied science after a course of not less than three years. Time occupied during college vacation, in actual engineering work, under the direction of a corporate member of the society, shall count towards the term of two years above mentioned;

(e) Pass an examination before the board of examiners of the society on the theory and practice of engineering, and specially in

one of the following branches at his option: railway, municipal, hydraulic, mechanical, mining, or electrical engineering.

2. Indentured pupils of civil engineers, at the time of the coming into force of this act, who shall, within six months thereafter, register their indentures with the society and pay the admission fees, shall, upon the completion of the full term of five years, be admitted to practice on passing the preliminary and final examinations as herein prescribed.

3. All examinations shall be conducted in French or English at the option of the candidate.

7. Any student who has passed the examination prescribed by this act is entitled to receive a diploma, and becomes a corporate member of the society.

8. No by-laws passed, or that may be passed, by the society, shall have force or effect in this Province until approved by the Lieutenant-Governor in Council.

9. No person practicing the profession of civil engineer, and not entitled to do so under this act, shall recover before any court of justice any sum of money for the professional services rendered in such practice.

10. Any person who, not being registered as a member of the said society, takes or makes use of any such name, title or designation as mentioned, or assumes the title of civil engineer, shall be liable upon summary conviction to a fine not exceeding twenty-five dollars for the first offence, and not exceeding one hundred dollars for any subsequent offence.

11. Nothing in this act shall be deemed to encroach upon the rights and privileges conferred upon provincial land surveyors by any act of the Legislature of this Province.

12. This act shall come into force on the day of its sanction.

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BY-LAWS

OF

The Canadian Society of Civil Engineers

APPLICABLE TO THE PROVINCE OF QUEBEC (UNDER ACT 61 VIC., CHAP. 32),
ENTITLED AN ACT CONCERNING CIVIL ENGINEERS.

Approved by the Lieut.-Governor in Council, Feb. 24th, 1899.

CLASSIFICATION OF CORPORATE MEMBERS.

7. Every candidate for election as Member must be at least thirty years of age, and must have been engaged in some branch of Engineering for at least ten years, which period may include apprenticeship, or pupilage in a qualified Engineer's office, or a term of instruction in some school of Engineering recognized by the Council.

The term of ten years will be reduced to eight years in the case of any candidate who has graduated with honours in his Engineering course. In every case the candidate must have had responsible charge of work for at least five years, and this not merely as a skilled workman, but as an Engineer qualified to design or direct Engineering works.

8. Every candidate for election as an Associate Member must have been engaged in some branch of Engineering for at least five years, which period may include apprenticeship or pupilage in a qualified Engineer's office, or a term of instruction in some school of Engineering recognized by the Council.

13. Proposals for transfer from one class to a higher (Form B made of ^{motion to} in the Appendix) shall contain a statement over the candidate's ^{several classes.} signature, of his age, residence, and the nature and term of his professional service, also an agreement to conform to the regulations of the Society if promoted. The applicant shall give as references at least five Corporate Members, from whom the Council shall obtain satisfactory evidence in writing that they personally know the candidate, and that he is worthy of promotion.

Notification of election.

15. On the election of a candidate, he shall be immediately notified by the Secretary (Form C in the Appendix). On receipt of the notification he must subscribe to the Constitution and By-Laws (in the terms set forth in Form D in the Appendix), and pay to the Treasurer the regular fees before he can be entitled to the privileges of membership.

Certificates of Membership.

16. All certificates of membership issued to Members are the property of the Society, and must be returned by any Member who has resigned, or whose name has been removed from the roll of membership, within one week of his receipt of notice of such removal or acceptance of resignation.

EXPULSION.**Expulsion.**

17. Upon the request of ten or more Members, that, for causes specified, a Member of the Society should be expelled, the Council shall consider the matter, and, if there shall be sufficient reason, shall advise the said Member that his resignation will be accepted. He may upon demand receive a copy of the charges against him, and present a written defence. Two months after such action on his part the Council shall finally consider the case, and if resignation has not been tendered, or a satisfactory defence made, will then notify the Member that he will be expelled in one month, unless he elects to appeal from this decision, in which case his appeal shall be voted on by letter ballot.

Neither the Council nor the Members bringing the charge shall vote. If two-thirds of the votes are for expulsion, the Member shall be expelled, and the Council shall notify the said Member and the Society of the result. In case no appeal is made, the Council shall expel the said Member, and notify him and the Society of his expulsion, and such notification shall in any event be the only notice, public or private, taken of the matter.

Expulsion for criminal offence.

17a. If any Member of the Society shall be convicted of any criminal offence whatever, he shall *ipso facto* be disqualified from membership in the Society, and his name shall be erased from among the Members by the Secretary, acting upon the instruction of the Council of the Society.

DUES.**Definition of resident and non-resident Members.**

18. Members, Associate Members, and Students who reside within 50 miles of the headquarters of the Society shall be deemed resident; those who reside beyond the limit of 50 miles shall be deemed non-resident.

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19. Each resident Member shall pay \$10.00, and each non-resident Member, \$8.00 per annum. Each resident Associate Member shall pay \$8.00, and each non-resident Associate Member, \$6.00 per annum. Each Student shall pay \$2.00 per annum.

20. Every person admitted to the Society shall be liable for all Resignation, dues until he shall have signified to the Secretary, in writing, his desire to withdraw, when, if his dues have been fully paid up, his name will be omitted from the list of membership.

21. All annual subscriptions shall become due on the first day of January in each year for the year then commencing, but no Member shall be considered in arrears for any year until after the first day of April of that year. It shall be the duty of the Secretary to notify each Member of the amount due for the ensuing year, at the time of giving notice of the annual meeting.

22. Any Corporate Member in default of payment of dues shall be notified by the Secretary to pay such arrears within three months. In the event of failure to pay such arrears within the time stipulated, the Member so notified shall cease to be, for the time being, a Member of the Society, but shall be reinstated by the Council on paying the arrears of fees due.

23. Any Member who, for non-payment of dues, has been struck off the roll of membership, may again, if the Council approves, join the Society on payment of all arrears, and on payment of such entrance fee as may hereafter be agreed upon.

24. The amount of the annual dues, to be paid for the support of the Society, may be changed from time to time at the Annual General Meeting of the Society, provided that notice of intended action thereon shall have been given to the Members two months previously by circular. No alteration in the amount of said fee shall apply to the fiscal year during which it is made, but shall take effect on and after the first day of January next succeeding the date of such alteration. Those who become resident or non-resident by removal of residence shall be subject to the dues of the class to which they belong at the date of the Annual Meeting, as may be shown by the records of the Society, or by a written notice to the Secretary.

25. Any Member may compound his fee, and become a Life Member on payment of a sum of \$150.00, which is to be invested by the Council, the interest only to be used for current expenses.

Exemption from payment of dues.

26. The Council may, for sufficient cause, exempt from payment of annual dues any Member, distinguished in his professional career, who from ill-health, advanced age, or for other good reason assigned does not continue to carry on a lucrative practice, and is unable to pay such dues.

OFFICERS.**Officers.**

27. The officers of the Society shall consist of a President, three Vice-Presidents, a Treasurer, a Secretary, a Librarian; the last three surviving Past Presidents who continue to be Members, who shall be styled Honorary Councillors; and fifteen Councillors. Of the fifteen Councillors, not more than three may be Associate Members.

COUNCIL.**Composition.**

28. There shall be a Council, consisting of the President, Vice-Presidents, Treasurer, Secretary, Honorary Councillors and Councillors, and of this Council five shall constitute a quorum. The Members of Council shall retain their position until their successors have been appointed.

MANAGEMENT.**Chairman of Society Meetings.**

29. The President, or, in his absence, one of the Vice-Presidents, or, in their absence, a Member of Council, shall preside at all meetings of the Society. In the event of the absence of the President and of all the Vice-Presidents and Members of Council, the meeting may select any Member as Chairman.

Duties of Secretary.

30. The Secretary shall keep an accurate record of the transactions of the Society and of the Council. He shall also keep a correct roll of Members' names with their addresses and dates of their admission. He shall conduct the correspondence of the Society, give notice of all meetings, supervise the printing, and, under the direction of the Council, edit the transactions of the Society.

Duties of Treasurer.

31. The Treasurer shall have charge of the funds of the Society, shall receive all money and pay all accounts and orders approved of by the President, or by the Chairman of Finance or Library Committee. He shall also deposit and invest the Funds of the Society in its name, and always with the approval of the Council. All accounts exceeding \$10 shall be paid in cheques, which shall be signed by the Treasurer and countersigned by one member of the Finance Committee.

Duties of Librarian.

32. The Librarian shall take charge of the Library of the Society, shall mark all books with the name of the Society, and shall number

and record them in a catalogue. He shall also conform to such regulations as may be prescribed by the Library Committee.

33. The Council shall have general supervision of the affairs of the Society, shall prepare by-laws, shall approve and classify candidates, shall fill up vacancies as they occur amongst its members, shall apply funds in the treasury, shall recommend the amount of appropriations for specific purposes, and shall present a report on the affairs of the Society, embracing the report of the Treasurer at the Annual Meeting. In no case shall the Council incur any expenditure for extraordinary purposes unless previously authorized to do so at the Annual Meeting or at a special general meeting.

The Council shall meet as often as the business of the Society may require.

34. The Council shall meet within one week after its election, and shall appoint, firstly, a Standing Committee of five on Finance, which shall have supervision of the accounts of the Society, shall audit the books of the Treasurer, and shall certify to his annual report; and, secondly, a Library Committee of five, which shall have supervision of the rooms, and shall apply to the purchase of books, or other articles of permanent value to the Society, such sums as may be granted for that purpose. Three members of such committees shall constitute a quorum.

NOMINATION AND ELECTION OF OFFICERS.

35. A Nominating Committee of eight Corporate Members, elected annually, and of the last three surviving Past Presidents, who continue to be Members, shall draw up a list of names of such Corporate Members as, in its opinion, are qualified to fill the offices of President, Vice-Presidents, Treasurer, Secretary, Librarian and Councillors for the ensuing year, and who shall, previously to their names being entered on the list, have signified to the Committee, in writing, their willingness to accept their several nominations.

This list shall contain at least thirty-four names of Corporate Members, viz.: one for President, five for Vice-Presidents, one for Treasurer, one for Secretary, one for Librarian, and twenty-five for Councillors; and, of the twenty-five nominated as Councillors, at least seven must be resident at headquarters. The list shall be signed by a majority of the Nominating Committee.

36. The Nominating Committee shall forward this list to the Council not later than the 1st of October of the current year, and a copy of the list shall be sent by the Secretary to each Corporate Member of the Society not later than the fifteenth of the said October.

Additional
nominations.

37. Any twelve Corporate Members, of whom not more than four may be Associate Members, may present to the Council, on or before the fifteenth of November of the current year, a list of names proposed by them for officers, such list to be accompanied by the nominees' acceptance of nomination, in writing. A copy of such list shall also be sent by the Council to each Corporate Member not later than the following first of December.

Names of
nominators to
be printed on
list.

38. The list issued by the Nominating Committee shall be headed as such; and the names of the nominators of any list, other than that issued by the Nominating Committee, shall be printed at the head of such list as the nominators of the same.

Withdrawal
of consent.

39. Should any Corporate Member, who has consented to be nominated for any office, wish to withdraw his consent, he must do so in writing not later than the fifteenth of September of the current year.

Ballot for
Election of
Officers.

40. The officers shall be elected by a majority of votes taken by scaled letter ballot. This ballot shall be opened and declared at the Annual Meeting, and the report of the scrutineers shall give the names of all Members who have been elected and number of votes cast for each. In case two or more persons shall equally have received the highest number of votes, the choice shall be made from amongst them by ballot at the meeting.

40a. Any Member may vote for the same person for the offices of President, Vice-President and Member of Council, provided always that, should any Member be elected to more than one office, he must choose which he shall hold, and the vacancy arising from his declining to hold the extra office or offices shall be filled by the Member or Members who shall have received the next highest number of votes, after those already elected to said office or offices.

Appointment
of Scrutineers.

41. The scrutineers of the ballot at the Annual Meeting for the election of officers and of the elective members of the Nominating Committee may be named, with the consent of the meeting, by the Chairman. If not thus named they shall be elected by ballot at the meeting.

ELECTION OF NOMINATING COMMITTEE.

Nominating
Committee.

42. The Secretary shall send to all Corporate Members, at the same time he sends the list of those nominated for office, a form of ballot (Form Z) for the election of the elective members of the Nominating Committee. The Corporate Members shall elect representatives

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on the Nominating Committee as follows: those resident in Newfoundland, Nova Scotia, Prince Edward Island and New Brunswick, one member; those resident in the Province of Quebec, two members; those resident in the Province of Ontario, three members; those resident in Canada to the west and north-west of the Province of Ontario, one member; and those not living in Canada or Newfoundland, one member who shall be resident at headquarters.

It shall not be necessary for any member of the Nominating Committee to reside in the District he represents.

43. The ballot for election of members of the Nominating Committee shall be returned to the Secretary of the Society with the ballot for election of officers, and shall be examined and reported on by scrutineers appointed at the same time and in the same manner as the scrutineers for the ballot for the election of Officers. Ballot for Nominating Committee.

The Member or Members for each District who shall receive the greatest number of votes shall form the elective part of the Nominating Committee, provided that, in case any Member with a majority of votes refuse to act, the Member coming next in order by majority of votes shall be elected, provided, however, that, should the full number of the Committee still fail to be elected, the deficiency shall be supplied by ballot at the Annual Meeting.

The Committee shall elect a Chairman within sixty days of their election, by each Member sending his vote sealed with his name outside the envelope, which shall be endorsed "Vote for Chairman" to the Secretary of the Society, whose duty it shall be, when he has received all the votes, to lay the same before the Council, which shall open the ballot and notify (through the Secretary) the member of the Committee who has been elected Chairman. Should the Committee fail to elect a Chairman within the sixty days above mentioned, the Council shall make the appointment and notify the Committee thereof. Election of Chairman.

MEETINGS.

44. The meetings of the Society shall be as follows:—

(A.) The Annual Meeting for the election of officers shall be held Annual Meeting on the second Tuesday in January, or on such other day in January as the Council may direct. The Council shall lay before the meeting a report of the standing of the Society, with a statement by the Annual Treasurer, verified by the Committee on Finance, of the Funds of the Society, and the receipts and payments during the year ended on the 31st December preceding. Also a list of the meetings held by the Council and the names of those present at each meeting. At such annual meetings fifteen Corporate Members shall constitute a quorum. A notice of twenty-one days shall be required for an Annual Meeting.

Special General Meeting.

(B.) Special General Meeting of the Society may be called by order of the Council for the transaction of special business. The quorum at a Special General Meeting shall be fifteen Corporate Members.

A notice of twenty-one days shall be given for a Special General Meeting.

Ordinary Meeting.

(C.) Ordinary meetings of the Society shall be held at eight o'clock in the evening, on every alternate Thursday during the months of October, November, December, January, February, March, April and May, commencing with the second Thursday in October; but it shall be in the power of an ordinary meeting to make such changes in these dates as may be deemed advisable.

Order of Business.

The business of an ordinary meeting shall be transacted as nearly as possible in the following order:—

(a.) The minutes of the preceding meeting to be read, approved and signed by the Chairman and Secretary.

(b.) Business arising out of the minutes to be discussed.

(c.) Appointment of Scrutineers and opening of ballot for election of members.

(d.) Candidates for admission into the Society to be announced.

(e.) Communications from the Council to be considered.

(f.) New business to be proposed and notices of motion to be given.

(g.) Original papers to be read and discussed.

Students' Meetings.

(D.) Students' meetings shall be held at eight o'clock in the evening, at such dates as shall be determined by Council, and of which due notice shall be given.

Changes in rules or special expenditures require notice of motion.

45. Changes in the rules and regulations of the Society and new rules and regulations shall not be voted on or adopted, nor shall the expenditure of any funds, for which a vote is necessary, be authorized, unless notice of motion has been given not less than four weeks previously to such vote being taken, so that the Secretary shall have time to notify all Corporate Members.

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50. Society examination of Ci

PAPERS.

46. All papers must be forwarded to the Secretary of the Society, ^{Papers.} when they will be examined by the Council, and, if deemed of sufficient interest, copies shall be made and sent to every branch of the Society. Such papers shall be read and presented for discussion at all branches at the same time as at the headquarters of the Society, or as soon thereafter as may be practicable. A report of the discussion at the branches shall be forwarded to the Secretary of the Society within one week after the day fixed for the reading by the Society.

47. The papers shall be the property of the Society, and no publication of any papers or discussion shall be made, except by the ^{property of the} Society or with the permission of the Council.

AMENDMENTS TO BY-LAWS.

48. New by-laws or alteration or repeal of existing by-laws may be made in the following manner. Notification of proposed new by-laws ^{Mode of} _{amending} ^{By-Laws.} or of alteration or repeal of existing by-laws shall be given to the Council, signed by at least ten Corporate Members, not later than three months before the date of the Annual Meeting.

The Council shall issue notice of the proposition, specifying the particular new by-law or alteration or repeal of any existing by-law which may be thus recommended, and submit the same to vote by letter ballot, not less than two months before the Annual Meeting, the ballot to be taken on or before the date of the Annual Meeting, and not less than two-thirds of the votes cast shall be required to effect any change. The Council may also propose new by-laws, or alterations or repeal of existing by-laws, and may submit the same to vote by letter ballot as above.

BRANCHES.

49. A local branch of the Society may be established under the authority of the Council at the request of not fewer than ten Voting Members, who are desirous of forming themselves into such local branch in any place not less than one hundred miles from the headquarters of the Society, or from any existing branch. The Members of such branches shall consist of those who join from time to time. The establishment of a branch shall not release Members from any of their obligations to the Society, whether as regards fees or membership in any class.

50. Local branches, although formed strictly of Members of the Society, may be distinguished by the name of their locality, ^{Name of} _{for} Branches. example, "The.....Branch of the Canadian Society of Civil Engineers."

Officers of
Branches.

51. The officers of local branches shall be a Chairman and Secretary-Treasurer, who shall be elected by the Members of the Branch.

Election of
Members of
Local
Branches.

52. All classes of Members of local branches must have been elected by the Society in the usual way, and in no case shall their Members be added to locally or otherwise than in the regularly prescribed way.

Fees of
Members of
Branches.

53. Members of a local branch shall pay to the Society the fees of a resident Member of the Society, and the Society shall remit to the branch, on application of its Secretary-Treasurer, the difference between a resident and non-resident's fees. The Society shall not be liable for any expenses incurred by a branch.

Meetings of
Branches.

54. The regular meetings in all branches shall be held on the same date as the corresponding meetings of the Society at headquarters.

Rules of
Branches.

55. In by-laws, rules of order, etc., and in particulars not specially referred to, the branches shall conform to the methods and rules adopted by the Society.

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APPENDIX.

FORM A.

The Canadian Society of Civil Engineers.

The proposal for MEMBER, ASSOCIATE MEMBER, ASSOCIATE, or STUDENT † shall contain a statement, over the *candidate's signature*, of his *age, residence*, the nature and term of his *professional service*, and that he will conform to the requirements of membership if elected.

STATEMENT.

I, _____, residing at _____, being desirous of admission into the Canadian Society of Civil Engineers, beg to submit the following as my professional record.

I was born at _____ on _____ 18_____

(The Candidate must here insert a concise history, with dates, of his professional career, specifying the positions he has held, the nature and extent of the works upon which he has been engaged, and his present profession and occupation. Proper names and names of railroads must be written in full.)

I will conform to the requirements of the class to which I may be elected.

(Signature)

(P.O. Address) _____

Date _____ 189_____

On the grounds stated, and because we believe him from personal knowledge to be in all respects a proper person to be admitted into the Canadian Society of Civil Engineers, we hereby recommend for election

Mr. _____ of _____

To be signed by at least five Voting Members of the Canadian Society of Civil Engineers.

† One signature sufficient for Student. By-Law 13.

FORM B.

The Canadian Society of Civil Engineers.

The proposal for TRANSFER FROM ONE CLASS TO A HIGHER shall contain a statement, over the *candidate's signature*, of his *age, residence, the nature and term of his professional service*, and that he will conform to the requirements of the class to which he may be transferred.

STATEMENT.

I,
residing at
being
of the Canadian Society of Civil Engineers, beg to submit the following
as my professional record, and request to be transferred to the class of

I was born at on 18

(The Candidate must here insert a concise history, with dates, of his professional career, specifying the positions he has held, the nature and extent of the works upon which he has been engaged, and his present profession or occupation. Proper names and names of railways must be written in full.)

I will conform to the requirements of the class of

(Signature)

(P.O. Address)

Date 189

On the grounds stated, and because we believe him from personal knowledge to be properly qualified in all respects, we whose names are hereunto subscribed submit to the Council of the Canadian Society of Civil Engineers the propriety of transferring from the class of

..... TO THE CLASS OF

Mr. of

To be signed by at least five Voting Members of the Canadian Society of Civil Engineers.

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FORM C.

The Canadian Society of Civil Engineers.

MONTRÉAL.

189

SIR,

I have the honor to inform you that having been proposed by
Messrs.

you were duly elected

of THE CANADIAN SOCIETY OF CIVIL ENGINEERS, on the
day of

According to the regulations of the Society, you are required as
to pay \$ being your subscription for
the current year, and to return the accompanying Form D, with your
signature, within six months of the date of your election; otherwise
your election will be cancelled. These conditions being complied with,
you will be considered as admitted into the Society, when any publica-
tions or notices to which you are entitled will be forwarded according
to your directions.

I beg to call your attention to Section 22 of the By-Laws.

I am, Sir,

Yours, &c.,

Secretary.

FORM D.

The Canadian Society of Civil Engineers.

I, the undersigned, being elected
of THE CANADIAN SOCIETY OF CIVIL ENGINEERS, agree to be governed by
the Charter and By-Laws of the Society. I will promote the objects of
the Society as far as shall be in my power, and attend the meetings
thereof as often as I conveniently can. Provided that whenever I shall
signify in writing to the Secretary, for the time being, that I am
desirous of withdrawing my name therefrom, I shall (after the payment
of any arrears which may be due by me at that period) be free from
this obligation.

I also engage to present to the Society an original communication,
a drawing, plan, or model of engineering interest, or some scientific work
for the library, within the space of twelve months from the date of my
election.

(Signature)

(P.O. Address)

Date

189

FORM Z.

The Canadian Society of Civil Engineers.

**BALLOT FOR THE ELECTION OF THE ELECTIVE MEMBERS
OF THE NOMINATING COMMITTEE FOR THE YEAR 1891.**

District of _____

Write in above "Maritime Provinces," "Quebec," "Ontario," "North-West Provinces," or "outside of Canada and Newfoundland."

(Write in the above space the name or names of members whom you wish to represent your district in accordance with By-Law No. 42. Enclose in the envelope marked "BALLOT FOR NOMINATING COMMITTEE," and return to the Secretary along with the Ballot for the Election of Officers.)

[Extract from By-Law No. 42.]

"The voting members shall elect representatives on the Nominating Committee as follows:—Those resident in Newfoundland, Nova Scotia, Prince Edward Island and New Brunswick, one member; those resident in the Province of Quebec, two members; those resident in the Province of Ontario, three members; those resident in Canada to the West and North-West of the Province of Ontario, one member; and those not living in Canada or Newfoundland, one member, who shall be resident at headquarters."

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MEMBERS
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LIST OF MEMBERS
OF THE
Canadian Society of Civil Engineers.
FEBRUARY 1st, 1899.

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NOTICE.

It is particularly requested that changes of address be immediately communicated to

The Secretary,

Canadian Society of Civil Engineers,

112 Mansfield St., Montreal.

N.B.—Names of deceased members are in *italics*.

T H E

Canadian Society of Civil Engineers.

Established February 24th, 1887—Incorporated by Dominion Act
June 23rd, 1887, 50 Vict., Cap. 124.

1899.

PRESIDENT.

W. T. JENNINGS.

VICE-PRESIDENTS.

P. W. ST. GEORGE. K. W. BLACKWELL,
E. H. KEATING.

TREASURER.

H. IRWIN.

SECRETARY.

CLEMENT H. MCLEOD.

PAST-PRESIDENTS.

JOHN KENNEDY,
EDMUND P. HANNAFORD,
P. ALEX. PETERSON,

THOMAS MONRO,
HERBERT WALLIS,
T. C. KEEFER, C.M.G.
W. G. McN. THOMPSON.

COUNCILLORS.

G. H. DUGGAN,
JOHN KENNEDY,
THOS. MONRO,
H. N. RUTTAN,
C. H. RUST,
G. A. MOUNTAIN,
D. MACPHERSON,

C. E. W. DODWELL,
ST. GEO. BOSWELL,
W. B. MACKENZIE,
E. MARCEAU,
W. CHIPMAN,
J. GALBRAITH,
STUART HOWARD,
E. A. WILMOT.

LIBRARIAN.

W. McNAB.

STANDING COMMITTEES.

ON FINANCE.

DUNCAN MACPHERSON, Chairman,
K. W. BLACKWELL,
H. IRWIN,
ERNEST MARCEAU,
G. A. MOUNTAIN.

ON LIBRARY.

STUART HOWARD, Chairman,
GEORGE HERRICK DUGGAN,
W. McNAB,
C. H. MCLEOD,
C. H. RUST.

COMMITTEE ON PAPERS.

(Appointed by Council.)

JOHN KENNEDY, Chairman,	THOS. MONRO,	E. A. WILMOT,
J. S. ARMSTRONG,	R. SURTEES,	W. P. ANDERSON,
L. A. VALLEE,	J. G. KERRY,	H. N. RUTTAN,
M. J. BUTLER,	T. H. TRACY,	G. H. WEBSTER.

GZOWSKI MEDAL COMMITTEE

(Appointed by Council.)

J. T. NICOLSON, Chairman,	D. MACPHERSON,
JOHN GALBRAITH,	W. R. BUTLER,
	T. MONRO.

BUILDING FUND COMMITTEE.

(Appointed by Council.)

P. W. ST. GEORGE, Chairman,	K. W. BLACKWELL,
E. H. KEATING,	C. E. W. DODWELL.
J. L. N. COSTE,	

STATEMENT OF MEMBERSHIP.

	Jan. 30, 1898.			Jan. 30, 1899.		
	Non-Res.	Res.	Total.	Non-Res.	Res.	Total.
HONORARY MEMBERS.....	6	2	8	5	2	7
MEMBERS.....	231	53	284	238	56	294
ASSOCIATE MEMBERS.....	126	35	161	150	82	232
ASSOCIATES.....	28	13	41	28	13	41
STUDENTS.....	99	35	134	98	44	142
	<hr/>			<hr/>		
	628			<hr/>		
				716		

	1896.	1897.	1898.	1899.
RO.	HERBERT WALLIS.	THOMAS C. KEEFER,	W. G. MCN. THOMPSON	W. T. JENNINGS,
IS.	HENRY T. BOVEY, CHAS. MACDONALD, W. G. THOMPSON.	HENRY T. BOVEY, G. H. DUGGAN, W. T. JENNINGS, W. G. THOMPSON.	K. W. BLACKWELL, H. D. LUMSDEN, P. W. ST. GEORGE,	P. W. ST. GEORGE, K. W. BLACKWELL, E. H. KEATING.
LD.	W. D. BARCLAY.	ST. GEO. BOSWELL.	J. D. BARNETT	G. H. DUGGAN.
T.	J. D. BARNETT, ST. GEO. BOSWELL	M. J. BUTLER, G. C. CUNINGHAM,	SP. G. BOSWELL, J. L. N. COSTE,	JOHN KENNEDY,
HAM.	M. J. BUTLER,	C. E. W. DODWELL,	C. E. W. DODWELL	THOS. MONRO,
VELL.	W. R. BUTLER,	H. IRWIN.	G. H. DUGGAN,	H. N. RUTTAN,
C.	H. J. CAMBIE.	E. H. KEATING,	E. C. GAMBLE,	C. H. RUST,
N.	G. C. CUNINGHAM,	G. A. KEEFER,	J. GALBRAITH,	G. A. MOUNTAIN,
ON.	W. B. DAWSON,	D. H. KEELEY,	E. H. KEATING,	D. MACPHERSON,
	G. H. DUGGAN.	D. MACPHERSON,	E. MARCEAU,	C. E. W. DODWELL,
	H. IRWIN.	A. MACDOUGALL,	D. MACPHERSON,	ST. GEO. BOSWELL,
E.	E. H. KEATING,	C. H. RUST,	H. RUD PETERS,	V. B. MACKENZIE,
A.	A. MACDOUGALL,	E. MARCEAU,	E. MARCEAU,	E. MARCEAU,
SON.	W. G. MATHESON,	M. MURPHY,	C. B. SMITH,	W. CHIPMAN,
	D. A. STEWART,	H. PETERS,	J. M. SHANLY,	J. GALBRAITH,
	W. J. SPROULE.	H. N. RUTTAN,	H. N. RUTTAN,	S. HOWARD,
		W. J. SPROULE,	W. MCL. WALBANK,	E. A. WILMOT.
	T. C. KEEFER.	Col. SIR C. S. GZOWSKI	Col. SIR C. S. GZOWSKI	T. C. KEEFER,
WSKL.	SIR C. S. GZOWSKI.	JOHN KENNEDY,	JOHN KENNEDY,	JOHN KENNEDY,
DY.	JOHN KENNEDY,	E. P. HANNAFORD,	E. P. HANNAFORD,	E. P. HANNAFORD,
FORD.	E. P. HANNAFORD,	P. ALEX. PETERSON,	P. A. PETERSON,	P. A. PETERSON,
ON.	P. ALEX. PETERSON,	THOS. MONRO,	THOS. MONRO,	THOS. MONRO,
	THOS. MONRO.	HERBERT WALLIS.	HERBERT WALLIS,	HERBERT WALLIS,
D.	C. H. MCLEOD.	C. H. MCLEOD,	T. C. KEEFER,	W. G. MCN. THOMPSON
			C. H. MCLEOD,	C. H. MCLEOD,
WELL.	K. W. BLACKWELL.	K. W. BLACKWELL	H. IRWIN,	H. IRWIN.
	WM. McNAB.	W. McNAB.	W. McNAB.	W. McNAB.

CANADIAN SOCIETY OF CIVIL
LIST OF OFFICERS FOR THE YEAR

	1887.	1888.	1889.	1890.	1891.	1892.	1893.
President....	T. C. KEEFER.	S. KEEFER.	C. S. GZOWSKI.	C. S. GZOWSKI.	SIR C. S. GZOWSKI.	JOHN KENNEDY.	E. P. HANN.
Vice-Presi- dents....	C. S. GZOWSKI. J. KENNEDY. W. SHANLY.	C. S. GZOWSKI. E. P. HANNAFORD. H. F. PERLEY.	E. P. HANNAFORD. H. F. PERLEY. P. A. PETERSON.	E. P. HANNAFORD. J. KENNEDY. H. F. PERLEY.	E. P. HANNAFORD. J. KENNEDY. F. J. LYNCH.	W. T. JENNINGS. THOS. MONRO. P. A. PETERSON.	W. T. JENNINGS. THOS. MONRO. P. A. PETE.
Councillors.	F. N. GISBORNE. E. P. HANNAFORD. W. T. JENNINGS. S. KEEFER. L. LESAGE. H. D. LUMSDEN. A. MACDOUGALL. H. F. PERLEY. H. PETERS. P. A. PETERSON. H. S. POOLE. H. N. RUTTAN. P. W. ST. GEORGE. C. SCHREIBER. H. WALLIS.	H. ABBOTT. F. R. F. BROWN. F. N. GISBORNE. J. HOBSON. L. LESAGE. J. KENNEDY. A. MACDOUGALL. H. A. F. MACLEOD. M. MURPHY. P. A. PETERSON. H. S. POOLE. H. N. RUTTAN. P. W. ST. GEORGE. C. SCHREIBER.	G. F. BAILLARGE. J. D. BARNETT. K. W. BLACKWELL. ST. G. J. BOSWELL. F. R. F. BROWN. G. C. CUNNINGHAM. E. GILPIN. F. N. GISBORNE. W. T. JENNINGS. G. A. KEEFER. M. MURPHY. P. A. PETERSON. H. S. POOLE. B. D. McCONNELL. E. WRAGGE. J. E. VANIER.	W. P. ANDERSON. J. D. BARNETT. F. R. F. BROWN. K. W. BLACKWELL. C. E. W. DODWELL. W. T. JENNINGS. G. A. KEEFER. H. G. C. KETCHUM. T. MONRO. G. H. MASSY. J. KENNEDY. M. MURPHY. P. W. ST. GEORGE. J. W. TRUTCH. E. WRAGGE.	W. P. ANDERSON. J. D. BARNETT. F. R. F. BROWN. K. W. BLACKWELL. C. E. W. DODWELL. H. DONKIN. F. N. GISBORNE. E. A. HOARE. J. HOBSON. W. T. JENNINGS. T. MONRO. P. A. PETERSON. H. N. RUTTAN. P. W. ST. GEORGE. SIR J. W. TRUTCH.	J. D. BARNETT. K. W. BLACKWELL. H. T. BOVEY. H. J. CAMBIE. C. E. W. DODWELL. F. C. GAMBLE. F. N. GISBORNE. E. A. HOARE. J. HOBSON. C. H. KEEFER. H. G. C. KETCHUM. H. D. LUMSDEN. A. MACDOUGALL. H. N. RUTTAN. P. W. ST. GEORGE.	ST. GEO. BO. H. T. BOVEY. F. R. F. BR. G. C. CUN. C. K. DOM. C. H. KE. H. D. LAM. A. MACDO. E. MOHUN. G. A. MUN. H. S. FOOL. FRANK R. L. THOMAS R. P. W. ST.
Past Presi- dents....	T. C. KEEFER.	T. C. KEEFER.	T. C. KEEFER.	T. C. KEEFER.	T. C. KEEFER.	T. C. KEEFER.
Secretary...	H. T. BOVEY.	H. T. BOVEY.	H. T. BOVEY.	H. T. BOVEY.	H. T. BOVEY.	C. H. MCLEOD.	C. H. MC
Treasurer...	H. WALLIS.	H. WALLIS.	H. WALLIS.	H. WALLIS.	H. WALLIS.	H. WALLIS.	H. WALL
Librarian....	F. CHADWICK.	F. CHADWICK.	F. CHADWICK.	F. CHADWICK.	F. CHADWICK.	WM. McNAB.	WM. MC

SOCIETY OF CIVIL ENGINEERS.
FICERS FOR THE YEARS 1887 TO 1899.

1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.
N KENNEDY.	E. P. HANNAFORD.	P. ALEX. PETERSON.	THOMAS MONRO.	HERBERT WALLIS.	THOMAS C. KEEFER.	W. G. MPN. THOMPSON	W. T. JENNINGS.
T. JENNINGS.	W. T. JENNINGS.	A. MACDOUGALL.	W. T. JENNINGS.	HENRY T. BOVEY.	(HENRY T. BOVEY.	K. W. BLACKWELL.	P. W. ST. GEORGE.
S. MONRO.	THOS. MONRO.	P. W. ST. GEORGE.	M. MURPHY.	CHAS. MACDONALD.	UG. H. DUGGAN.	H. D. LUMSDEN.	K. W. BLACKWELL.
A. PETERSON.	P. A. PETERSON.	H. WALLIS.	H. WALLIS.	W. G. THOMPSON.	W. T. JENNINGS.	P. W. ST. GEORGE.	E. H. KEATING.
D. BARNETT.	J. D. BARNETT.	H. ABBOTT.	P. S. ARCHIBALD.	W. D. BARCLAY.	ST. GEO. BOSWELL.	J. D. BARNETT.	G. H. DUGGAN.
W. BLACKWELL.	ST. GEO. BOSWELL.	P. S. ARCHIBALD.	J. D. BARNETT.	J. D. BARNETT.	ST. G. BOSWELL.	ST. G. BOSWELL.	JOHN KENNEDY.
T. BOVEY.	H. T. BOVEY.	J. D. BARNETT.	H. T. BOVEY.	ST. GEO. BOSWELL.	J. L. N. COSTE.	J. L. N. COSTE.	THOS. MONRO.
J. CAMBIE.	F. R. F. BROWN.	H. T. BOVEY.	G. C. CUNINGHAM.	M. J. BUTLER.	C. E. W. DODWELL.	C. E. W. DODWELL.	H. N. RUTTAN.
C. W. DODWELL.	G. C. CUNINGHAM.	O. CHANTE.	C. E. W. DODWELL.	W. R. BUTLER.	H. IRWIN.	G. H. DUGGAN.	C. H. RUST.
C. GAMBLE.	C. K. DOMVILLE.	G. C. CUNINGHAM.	J. GALBRAITH.	H. J. CAMBIE.	E. H. KEATING.	E. C. GAMBLE.	G. A. MOUNTAIN.
N. GIBBORNE.	C. H. KEEFER.	H. DONKIN.	H. D. LUMSDEN.	G. C. CUNINGHAM.	G. A. KEEFER.	J. GALBRAITH.	D. MACPHERSON.
A. HOARE.	H. D. LUMSDEN.	G. H. DUGGAN.	D. MACPHERSON.	W. B. DAWSON.	D. H. KEELEY.	E. H. KEATING.	C. E. W. DODWELL.
J. HOBSON.	A. MACDOUGALL.	J. GALBRAITH.	H. N. RUTTAN.	G. H. DUGGAN.	D. MACPHERSON.	E. MARCEAU.	ST. GEO. BOSWELL.
J. KEEFER.	E. MOHUN.	G. H. GARDEN.	J. M. SHANLY.	H. IRWIN.	A. MACDOUGALL.	D. MACPHERSON.	W. B. MACKENZIE.
G. C. KETCHUM.	G. A. MOUNTAIN.	WM. HASKINS.	H. B. SMITH.	E. H. KEATING.	C. H. RUST.	HURD PETERS.	E. MARCEAU.
D. LUMSDEN.	H. S. FOOLE.	H. A. F. MACLEOD.	W. J. SPROULE.	A. MACDOUGALL.	E. MARCEAU.	C. B. SMITH.	W. CHIPMAN.
MACDOUGALL.	FRANK R. REDPATH.	H. PETERS.	R. SUITES.	W. G. MATHESON.	M. MURPHY.	J. M. SHANLY.	J. GALBRAITH.
N. RUTTAN.	THOMAS RIDOUT.	H. N. RUTTAN.	W. G. THOMPSON.	D. A. STEWART.	H. PETERS.	H. N. RUTTAN.	S. HOWARD.
W. ST. GEORGE.	P. W. ST. GEORGE.	L. A. VALLEE.	L. A. VALLEE.	W. J. SPROULE.	H. N. RUTTAN.	W. MCL. WALBANK.	E. A. WILMOT.
					W. J. SPROULE.		
C. KEEFER.	T. C. KEEFER.	T. C. KEEFER.	T. C. KEEFER.	T. C. KEEFER.	COL. SIR C. S. GZOWSKI	COL. SIR C. S. GZOWSKI	T. C. KEEFER.
C. R. S. GZOWSKI.	SIR C. S. GZOWSKI.	SIR C. S. GZOWSKI.	SIR C. S. GZOWSKI.	JOHN KENNEDY.	JOHN KENNEDY.	JOHN KENNEDY.	JOHN KENNEDY.
	JOHN KENNEDY.	JOHN KENNEDY.	JOHN KENNEDY.	JOHN KENNEDY.	E. P. HANNAFORD.	E. P. HANNAFORD.	E. P. HANNAFORD.
		E. P. HANNAFORD.	E. P. HANNAFORD.	E. P. HANNAFORD.	P. A. PETERSON.	P. A. PETERSON.	P. A. PETERSON.
H. McLEOD.	C. H. McLEOD.	C. H. McLEOD.	C. H. McLEOD.	P. ALEX. PETERSON.	THOS. MONRO.	THOS. MONRO.	THOS. MONRO.
WALLIS.	H. WALLIS.	K. W. BLACKWELL.	K. W. BLACKWELL.	HERBERT WALLIS.	HERBERT WALLIS.	HERBERT WALLIS.	HERBERT WALLIS.
M. McNAB.	Wm. McNab.	Wm. McNab.	Wm. McNab.	T. C. KEEFER.	C. H. McLEOD.	C. H. McLEOD.	C. H. McLEOD.
				C. H. McLEOD.	C. H. McLEOD.	C. H. McLEOD.	C. H. McLEOD.
				H. IRWIN.	H. IRWIN.	H. IRWIN.	H. IRWIN.
				W. McNab.	W. McNab.	W. McNab.	W. McNab.

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HONORARY MEMBERS.

(Hon. M. Can. Soc. C.E.)

<i>Date of Membership.</i>	<i>Name.</i>	<i>Address.</i>
1894 Jan. 4.	ABERDEEN, The Right Hon., the Earl of, P.C., LL.D.	
1889 May 23.	BRAMWELL, Sir FREDERICK JOSEPH,	5 Great George St., London,
	D.C.L., F.R.S.	England.
Jan. 3.	DAWSON, Sir JOHN WILLIAM, C.M.G., LL.D., F.R.S.	293 University St., Montreal.
Jan. 3.	DERBY, The Right Hon., the Earl of, G.C.B.	Knowsley, Liverpool, England.
Nov. 14.	Fowler, Sir John.	
Mar. 28.	HARTLEY, Sir CHARLES AUGUSTUS,	26 Pall Mall, London, S.W.,
	K.C.M.G.	England.
Nov. 14.	Hawkhurst, Sir John.	
May 23.	KELVIN, The Right Hon. Lord, F.R.S.S.L. & E., LL.D.	The University, Glasgow, Scotland.
1896 Jan. 9.	MCDONALD, Sir W. C.	891 Sherbrooke St., Montreal.

MEMBERS.

(M. Can. Soc. C.E.)

In the following list (C) prefixed to a name indicates the contributor of a paper published in the Transactions of the Society; (G) prefixed to a name indicates the award of a Gzowski medal.

<i>Date of Membership.</i>	<i>Name.</i>	<i>Address.</i>
1887 Feb. 3.	ABBOU, HARRY, <i>.....</i>	Vancouver, B.C.
1887 Jan. 20.	ABBLOTT, Job, <i>.....</i>	
1888 Mar. 22.	ALEXANDER, HORACE CLEMENT, <i>.....</i>	Room 908 Cham. of Com., Bdg., Chicago, Ill.
1887 Oct. 16.	A.M. } ALLISON, JOHN LOGIE, <i>.....</i>	S. F. & S. J. Y. Ry., Stockton, Cal.
1895 Feb. 28.	M. } <i>.....</i>	
1887 Jan. 20.	ANDERSON, Lieut. Col. WM. P., <i>.....</i>	Dept. of Marine, Ottawa.
1887 Nov. 11.	ARCHIBALD, PETER S., <i>.....</i>	Moncton, N.B.
1887 Feb. 24.	ARMOUR, JOHN FISHER, <i>.....</i>	Dundas, Ont.
1887 Jan. 20.	ARMOUR, R., <i>.....</i>	Asst. Engineer G.T.R., Montreal.
1887 Jan. 20.	ARMSTRONG, HARRY W. D., <i>.....</i>	47 Charles St., Toronto.
1888 Oct. 11.	ARMSTRONG, JOHN HARVEY, <i>.....</i>	Collingwood, Ont.
†1887 Jan. 20.	ARMSTRONG, J. S., <i>.....</i>	Rothesay, N.B.
1887 Apr. 28.	ATKINSON, ROGER, <i>.....</i>	C. P. R., Montreal.
1887 Feb. 24.	AYLEN, JOHN, <i>.....</i>	Aylmer, que.
1887 Jan. 29.	AYLMER, JOHN A., <i>.....</i>	Box 466, Peterboro, Ont.
†1887 Feb. 3.	BAILLARGÉ, CHAS. P., F.R.S.C., <i>.....</i>	Quel ec.
1887 Feb. 3.	BAILLARGÉ, GEORGE FRED, <i>.....</i>	48 St. Louis St., Quebec.
1888 Jan. 27.	BAKER, SIR BENJAMIN, <i>.....</i>	2 Queen Sq. Pl., London, S.W., Eng.
1887 Jan. 20.	BARBER, JAMES HENRY, <i>.....</i>	C. P. R., St. John, N.B.
1889 Nov. 14.	BARCLAY, WILLIAM DUNCAN, <i>.....</i>	Lethbridge, N.W.T.
1887 Feb. 3.	BARLOW, JOHN RIGNEY, <i>.....</i>	City Hall, Montreal.
†1887 Jan. 20.	BARNETT, JOHN DAVIS, <i>.....</i>	Stratford, Ont.
1893 May 18.	BARROW, ERNEST GEORGE, <i>.....</i>	City Hall, Hamilton, Ont.
1892 Mar. 11.	BARRY, AUG. BURGES, <i>.....</i>	257 Spadina ave., Toronto.
1887 Feb. 3.	BARTLETT, JAMES HERBERT, <i>.....</i>	Middlesborough, Kentucky.
1887 Mar. 12.	BAYNE, GEORGE ARTHUR, <i>.....</i>	144 Garry St., Winnipeg, Man.
1887 Jan. 20.	BEAUDRY, JOS. A. U., <i>.....</i>	107 St. James St., Montreal.
1887 Feb. 3.	BEEVOR, ABRAHAM FRED, <i>.....</i>	G. T. R., Montreal.
1887 Feb. 3.	BELCHER, JOHN E., <i>.....</i>	Peterborough, Ont.
1887 Sept 17.	BELL, JAMES ANTHONY, <i>.....</i>	St. Thomas, Ont.
1887 Feb. 24.	A.M. } BERLINGUET, F. X. THOS, <i>.....</i>	Three Rivers, P.Q.
1890 Nov. 20.	M. } <i>.....</i>	

1897 Dec. 9. BERNASCONI, G. A. Antigonish, N.S.
1887 Feb. 3. BERRYMAN, EDGAR 14 Richmond Sq., Montreal.
1887 Feb. 3. BLACKWELL, KENNETH WM. 856 Sherbrooke St., Montreal.
 (*Vice-President and Member of Council.*)
1887 Feb. 3. BOAG, Robert
1887 Feb. 3. BOLLAND, PERCY JAMES LEES. I. C. Ry., Moncton, N.B.
1887 May 23. BONZANO, ADOLPHUS 331 South 18th St., Philadelphia, Pa.
†1887 Jan. 20. BOSWELL, ST. GEO. J., B.A.Sc., 8 St. Denis St., Quebec.
 (*Member of Council.*)
G†1887 Jan. 20. BOVEY, HENRY TAYLOR, D.C.L.,
 LL.D., F.R.S.C. McGill University, Montreal.
1888 Apr. 19. A.M. } BOWMAN, HERBERT JOSEPH, Berlin, Ont.
†1896 Dec. 17. M. }
1887 June 25. BREEN, THOMAS P. O. Box 1041, Quebec.
1887 Jan. 20. BRITTAINE, ALFRED City Hall, Montreal.
1887 Apr. 28. S. }
1890 Nov. 20. A.M. } BROOKS, NOEL E. Calgary Hotel, Calgary, N.W.T.
1897 Dec. 9. M. }
1890 May 22. A.M. } BROUGH, WALTER C. 14 Grosvenor St., Toronto.
1893 Apr. 20. M. }
1887 Feb. 3. BROWN, F. R. F. 22 Street Railway Chambers,
 Montreal.
1887 Feb. 3. BRUSH, GEORGE Eagle Foundry, Montreal.
†1887 June 9. BURCHELL, HERBERT CHAS. St. John's, Nfld.
1894 Dec. 20. BURNYEAT, JOHN P. Vernon, B.C.
1890 Feb. 27. BURPEE, MOSES Chief Engineer, Bangor & Aroostook R.R., Houlton, Me.
†1887 Jan. 20. BUTLER, MATTHEW JOSEPH. Deseronto, Ont.
1887 Jan. 20. BUTLER, WILLIAM ROOT., M.A.E. R. M. College, Kingston, Ont.
1897 May 6. BUCK, L. H. Box 44, Lunenburg, N.S.

1889 Jan. 3. CADDY, JOHN ST. VINCENT. 214 Besserer St., Ottawa, Ont.
†1888 Feb. 9. CAMBIE, HENRY JOHN. Vancouver, B.C.
1887 Feb. 24. CAME, FRANK ELDON. 17 Place d'Armes, Montreal.
1888 Mar. 22. A.M. } CAMPBELL, ARCH. WM. Dept. Agriculture, Toronto, Ont.
1896 June 18. M. }
1887 Jan. 20. CARRE, HENRY Box 203, Belleville, Ont.
†1894 Mar. 29. CARROLL, CYRUS. Prince Albert, N.W.T.
1888 June 27. CARRY, HENRY E. C. 598 Markham St., Toronto.
1890 May 22. CHANUTE, OCTAVE. 413 Huron St., Chicago.
1887 Feb. 24. CHAPMAN, CHAS. HERBERT. No. 6 Calle Cincu de Mayo,
 Mexico City.

†1887 June 9. CHIPMAN, WILLIS, B.A.Sc., 103 Bay St., Toronto, Ont.
(*Member of Council.*)

†1887 June 9. CLEMENT, LEWIS METZLER, 1013 Central Av., Oakland, Cal.
1888 Apr. 19. Cooke, Richard Plunkett,

†1890 Nov. 20. CORTHELL, ELMER LAWRENCE, 27 Pine St., New York.
1887 Jan. 20. COSTE, JEAN LOUIS NAPOLEON, Dept. Public Works, Ottawa.
1887 Nov. 11. A.M. } COWIE, FREDERIC WM., Dept. Public Works, Ottawa.
1898 May 19. M. }
1887 Jan. 20. CRAWFORD, WILLIAM, 393 Maria St., Ottawa.
†1887 Feb. 3. CUNNINGHAM, GRANVILLE C., 153 Corporation St., Birmingham, Eng.
1888 Jan. 6. CUSHING, RICHMOND HERSEY, Houlton, Me.

1888 Mar. 22. DANGER, CHAS. HENRY, 233 Garry St., Winnipeg, Man.
1887 Feb. 24. A.M. } DAVIS, WILLIAM MAHON, Woodstock, Ont.
1891 April 9. M. }
†1887 Jan. 20. DAVY, RICHARD ADAMS, Iroquois, Ont.
†1887 Feb. 24. DAWSON, WM. BELL, M.A.E., M.A., Engineer in charge of Tidal Survey, Dept. of Marine, Ottawa.
1887 May 20. DeGurse, Jos.,
1892 May 20. De la VALLÉE POUSSIN, LUDOVIC, P.O. Box 1144, Montreal.
†1887 Jan. 20. DENIEL, MARIE VICTOR EMILE, Box 88, Cornwall, Ont.
1887 May 20. DESBARATS, G. J., Iroquois, Ont.
1887 Jan. 6. DICKY, JAMES ALEX., Canada Electric Co., Amherst, N.S.
1887 Apr. 12. S. }
1889 Jan. 3. A.M. } DOANE, FRANCIS W. W., City Engineer, Halifax, N.S.
1892 April 8. M. }
†1887 Jan. 20. DODWELL, CHARLES E. W., B.A., 42 Queen St., Halifax, N.S.
(*Member of Council.*)
1889 Feb. 14. DONALDSON, MORLEY, Can. Atlantic Ry., Ottawa.
1887 June 9. DONKIN, HIRAM, Mulgrave, N.S.
1887 June 9. DOUCET, Capt. ARTHUR EMILE, Care R. G. Reid, Contractor, Placentia Jet., Nfld.
1887 Feb. 24. DRURY, EDMOND H., Sherbrooke, Que.
1895 May 23. DUCHESNAY, EDMOND J., Vancouver, B.C.
1887 Feb. 24. A.M. } DUFFY, AMBROSE, 388 Gilmour St., Ottawa.
1887 Apr. 14. M. }
1888 Mar. 22. A.M. } DUGGAN, GEO. HERRICK, Dom. Bridge Co., Montreal.
1890 Feb. 27. M. }
(*Member of Council.*)
1887 June 25. A.M. } DUNN, G. C. B., O. & G. V. Railway, Central Chambers, Ottawa.
1897 Dec. 9. M. }
1887 Mar. 11. EARLE, WM. ZOBESKI, 133 Union St., St. John, N.B.
1894 Oct. 11. EDINGTON, JOHN, Moncton, N.B.

1891 May 21. A.M. } ELLIE, HENRY DISNEY. Commissioner Public Works,
1896 Dec. 17. M. } Kuching, Sarawak, Borneo.
1887 Feb. 24. EVANS, JOHN DUNLOP. Trenton, Ont.
1887 Feb. 24. EVANS, EDWARD ARTHUR. Q. & L. St. J. Ry., Quebec, P.Q.

1887 Jan. 20. FELLOWES, G. R. L. Macleod, Alta.
1887 Feb. 3. FIRTH, C. Holmlands Park, Sunderland.

1888 Sept. 17. FLEMING, RICHARD PHILIP. Standard Building, St. James
Street, Montreal

1896 June 18. FLEMING, Sir SANDFORD, C.M.G. Ottawa.

1889 Nov. 14. FORREST, HORATIO FRED. Winnipeg, Man.

1887 Jan. 20. FORSYTH, ROBERT. 130 Bleury Street, Montreal.

†1888 Jan. 6. A.M. } FORTIER, SAMUEL, PROF., B.A.Sc. Agricultural College, Logan,
1892 Dec. 23. M. } Utah.

1887 Jan. 20. FOWLER, ZACCHEUS JOHN. 431 Gilmour St., Ottawa.

1887 Feb. 3. FRANKS, Cecil Bushe.

1888 June 27. FRY, HENRY, JUN. Quamichan, B.C.

1887 Jan. 20. GALBRAITH, JOHN, PROF., M.A. School of Pract. Science, Toronto.
(Member of Council.)

1888 Mar. 22. GALT, JOHN. Ottawa.

1887 Jan. 20. GAMBLE, F. C. Dept. Land & Works, Victoria
1887 Jan. 20. GARDEN, GEORGE HERBERT. Arrowhead, B.C.

1894 Oct. 11. GARDEN, JAMES F. Vancouver, B.C.

1887 Jan. 20. GIBSON, PETER SILAS. Willowdale, Ont.

1887 Jan. 20. GILBERT, E. E.

1887 Jan. 20. GILBERT, FRANK. Can. Eng. Works, Montreal.

1887 Feb. 3. GILBERT, Walter W.

†1887 Jan. 20. GISBORNE, Frederick N.

1887 June 9. A.M. } GISBORNE, HARTLEY. 103 Selkirk Ave. E., Winnipeg,
1892 Dec. 23. M. } Man.

1888 Mar. 22. GOAD, CHARLES EDWARD. 15 Wellington St. W., Toronto.

1887 Jan. 20. GRAY, HENRY ALFRED. Rooms 68 and 69 Confederation
Life Bdg., Toronto

1892 Jan. 28. A.M. } GRAYDON, A. ORMSBY. City Hall, London, Ont.

1894 Oct. 11. M. } GRAYDON, A. ORMSBY. City Hall, London, Ont.

1896 Dec. 17. GREENWOOD, HENRY SMITH. P.O. Box 365, Peterboro, Ont.

1898 Feb. 17. GREGORY, CHAS. CURRIE. Antigonish, N.S.

1887 Jan. 20. GUERIN, Thomas.

1887 Jan. 20. GZOWSKI, Col. Sir Casimir Stanislaus

List of Members of

1898 May 19.	HAMILTON F. A.	151 Hollis St., Halifax, N.S.	18
1887 Jan. 20.	HANNAFORD, EDMUND P.	2573 St. Catherine St., Montreal.	18
		(<i>Past President.</i>)	18
†1887 Feb. 24.	HARKOM, JOHN WILLIAM.	C. P. Ry., Montreal.	18
1887 Jan. 20.	Harrington, T. W.		18
1888 Feb. 9.	HARRIS, WILLIAM DALE.	237 McLaren St., Ottawa.	18
1891 Jan. 29.	Haskins, William.		18
1887 Feb. 24.	HAY, THOS. ALEX. STEWART.	Peterborough, Ont.	†188
1888 May 17.	HEGAN, JAMES BLACK.	St. John, N.B.	189
1887 Jan. 20.	HENDERSON, ERNEST G.	Windsor, Ont.	189
†1887 Jan. 20.	Henshaw, George H.		†188
1889 May 23.	HERING, RUDOLPH.	100 William Street, New York.	189
1888 May 17.	HERTZBERG, ANTON LUND.	C. P. Ry., Toronto.	189
1887 Apr. 28.	HIBBARD, F. A.	Ottawa & Parry Sound Ry., Ottawa, Ont.	189
1887 Feb. 3.	HILL, ALBERT JAMES, M.A.	New Westminster, B.C.	188
1887 June 25.	HILL, ARTEUR ED. BRETON, B.A.Sc.	New Westminster, B.C.	188
1887 Jan. 20.	HILLMAN, THOMAS EDWARD.	Bank of Commerce Bdg., Hamilton, Ont.	G†188
1889 Feb. 14.	A.M. { HISLOP, JOHN, B.A.Sc.	Box 24, Skagway, Alaska.	†188
1894 Oct. 11.	M. } HISLOP, JOHN, B.A.Sc.		188
1887 Jan. 20.	HOARE, EDWARD ARTHUR.	Quebec & L. St. John Ry., Quebec.	189
1887 Jan. 20.	HOBSON, JOSEPH.	G. T. Ry., Montreal.	189
1890 Apr. 10.	HOGG, ALEXANDER LAUDER.	Portland Place, Inverness, Scotland.	189
1887 Dec. 1.	HOLGATE, HENRY.	Kingston, Jamaica.	188
1887 Jan. 20.	HOLLAND, GEORGE.	9 Lincoln Ave., Montreal.	1887
1889 Feb. 14.	A. } HOLT, HERBERT SAMUEL.	297 Stanley St., Montreal.	1889
1889 Dec. 19.	M. } HOLT, HERBERT SAMUEL.		1892
1887 Jan. 20.	HOWARD, STUART.	27 St. Luke St., Montreal.	†1887
		(<i>Member of Council.</i>)	†1888
1887 Jan. 20.	Hyndman, Patrick Kennedy.		1887
			1893
†1887 Jan. 20.	A.M. } IRWIN, HENRY.	72 Tupper St., Montreal.	†1887
1892 May 20.	M. } IRWIN, HENRY.		1890
		(<i>Treasurer and Member of Council.</i>)	1887
1887 Jan. 20.	JENNINGS, WILLIAM T.	Molsons Bank Bdg., Cor. King and Bay Sts., Toronto.	1889
		(<i>President.</i>)	1887
1887 Feb. 24.	JOHNSON, E. V.	Dept. of Railways, Ottawa.	1887
1893 Apr. 20.	JOHNSON, PHELPS.	Dom. Bridge Co., Montreal.	1887
1887 Jan. 28.	S. } JONAH, F. G.		1890
1889 Dec. 19.	A.M. } JONAH, F. G.	Springfield, Ill.	1897
1897 May 6.	M. } JONAH, F. G.		1888
1892 Dec. 23.	A.M. } JONES, THOS. H., B.A.Sc.	Brantford, Ont.	1887
1897 Mar. 11.	M. } JONES, THOS. H., B.A.Sc.		1887

1895 May 23. KEATING, EDWARD HENRY....Street Ry. Co., Toronto.
(*Vice-President.*)

1887 Jan. 20. KEEFER, CHARLES HENRY.....Ottawa.

1887 Feb. 3. KEEFER, GEORGE ALEX.....Victoria, B.C.

1887 Feb. 3. *Kefer, Harold*.....

1887 Jan. 20. KEEFER, THOMAS C., C.M.G....Ottawa.
(*Past President and Honorary Councillor.*)

†1887 Jan. 20. *Kefer, Samuel*

1893 Apr. 20. KENNEDY, JAMES CRON.....P.O. Box 710, Owen Sound, Ont.

†1887 Jan. 20. A.M. } KENNEDY, JAMES HENRY.....V. V. & E. Ry., Penticton, B.C.

1893 May 18. M. }
1887 Jan. 20. KENNEDY, JOHN.....Harbour Office, Montreal.
(*Past-President and Member of Council.*)

1887 Feb. 24. KENNEDY, WILLIAM, JUN.....Room 3, Y.M.C.A. Building, Montreal.

1888 Apr. 19. A.M. } KENRICK, ROBERT B.....Dom. Bridge Co., Montreal.

1898 Dec. 8. M. }
G†1887 Oct. 16. *Ketchum, Henry George Clopper.*

†1887 Jan. 20. *Killaly, Hamilton H.*

1894 Jan. 4. KING, ROBERT W.....503 Markham St., Toronto.

1887 Jan. 20. *Kingsford, William*

1888 Mar. 22. A.M. }
1896 Jan. 9. M. } KIRKPATRICK, ALEX. KING...C.P.R., Smith's Falls, Ont.

1887 Jan. 20. LAFLEUR, EUGENE D.....Dept. Pub. Works, Ottawa.

1887 Feb. 24. A.M. } LANTIER, ELZÉAR.....34 St. Anne St., Quebec.

1889 Nov. 14. M. }
1892 Dec. 23. LANGTON, JOHN.....72 Trinity Place, New York.

†1887 Jan. 20. LAURIE, WALTER H.....203½ St. Hubert St., Montreal.

†1888 Jan. 6. LAWSON, ALLAN JOHN.....Moorgate Court, Moorgate Place, London, E.C., Eng.

1887 Jan. 20. LEDUC, DENIS.....719, 19th Ave., Denver, Col.

1893 Oct. 12. LEE, W. WALTER.....Box 1006, Belleville, Ont.

†1887 Jan. 20. A.M. } LEONARD, REUBEN WELLS...Montreal West.

1890 May 22. M. }
1887 Jan. 20. *Lesage, Louis*.....

1889 Feb. 14. LINDENTHAL, GUSTAV.....45 Cedar St., New York.

1887 Jan. 20. LUMSDEN, HUGH DAVID.....63 Homewood Ave., Toronto.

1887 May 12. LYNCH, FRANCIS JOSEPH.....Dept. Rys. & Canals, Ottawa.

1887 Jan. 20. S. }
1890 Feb. 27. A.M. } McCARTHY, J. M.....Standard Bldg., Montreal.

1897 May 6. M. }
1888 Mar. 22. MCCARTHY, WILLIAM.....670 King St., Ottawa.

1888 May 17. NEILSON, MATTHEW.....Care of St. John Ry. Co.,
St. John, N.B.

G†1891 Nov. 19. NICOLSON, JOHN T., PROF.....McGill University, Montreal.

1895 Feb. 28 O'DONNELL, JOHN PATRICK.....70 & 71 Palace Chambers,
Westminster, London, S.W., Eng.

1887 June 25. A.M. } O'DWYER, J. SEABURY,
1895 May 23. M. } B.A.Sc.....Granby, Quebec.

1887 Feb. 3. A.M. } ORD, L. R.....Florida East Coast Ry.,
1897 May 6. M. } St. Augustine, Florida.

1891 Jan. 20. O'ROURKE, JOHN FRANCIS.....53 West 85th St., New York.

1887 May 12. A.M. }
1892 Dec. 23. M. } OSLER, CHAS. HODGSON.....Montreal Gas Co., Montreal.

1896 Dec. 17. O'SULLIVAN, HENRY.....Indian Lorette, P.Q.

1898 Dec. 22. OWENS, ROBERT BOWIE.....McGill University, Montreal.

1887 May 12. Page, John.....

1887 Jan. 20. PARENT, ETIENNE H.....1030 St. Denis St., Montreal.

1888 Mar. 22. PERRY, JAMES RUDSTON.....Napanee, Ont.

1887 Jan. 20. PETERSON, P. ALEX.....C.P.Ry., Montreal.
(*Past President*)

1887 Jan. 20. PETERS, HURD.....St. John, N.B.

1894 Jan. 4. A.M. }
1896 Jan. 9. M. } PHILLIPS, ARTHUR TRISTRAM, Box 355, Ottawa

1887 Feb. 24. PIM, JOSEPH PHELPS, B.A.....Room 25 Abington Buildings,
Portland, Oregon.

1891 Nov. 19. PINDER, WILLIAM GEORGE.....42 Cook St., Victoria, B.C.

1887 Jan. 20. Plunkett, Edmund Walter.....

†1887 Jan. 20. POOLE, HENRY SKEFFINGTON.....Stellarton, N.S.

1896 Dec. 17. PORTER, JOHN BONSALL PH.D., Prof. McGill University, Montreal.

1889 Mar. 14. POULIN, STANISLAS R.....375 Wellington St., Ottawa.

1887 June 25. PRATT, ROBERT MURRAY.....3 Musgrave Terrace,
St. John's, Nfld.

1887 Feb. 24. PRINGLE, THOMAS.....Room 57, Imperial Bdg.,
Montreal.

1887 Oct. 6. Ramsey, William Allen.....

1887 Jan. 20. RANNEY, GEORGE WARNER.....372 Water St., Peterboro, Ont.

†1887 Jan. 20. RHEAUME, LOUIS NAPOLEON.....Farran's Point, Ont.

1887 Apr. 14.	RHODES, ARMITAGE.....	P.O. Box 212, Quebec	188
1889 Dec. 19.	A.M. } RHYS-ROBERTS, EDMUND A.,	Dom. Bridge Co., Montreal.	188
1894 Oct. 11.	M. }		
1887 Jan. 11.	RIDOUT, THOMAS.....	Dept. Rys. & Canals, Ottawa.	189
1894 Oct. 20.	ROBB, DAVID W.....	Amherst, N.S.	189
†1887 Jan. 20.	ROBERTSON, GEO. EDWARD, B.A.Sc.	Kirkfield, Ont.	188
1887 May 12.	ROGERS, RICHARD B., B.A.Sc.....	Peterborough, Ont.	188
1887 Feb. 24.	ROSAMOND, JAMES EDWARD.....	Cornwall, Ont.	188
1889 Feb. 14.	A.M. } ROSS, A. B.....	3 Walmer Road, Toronto.	188
1897 Dec. 9.	M. }		188
1888 Oct. 11.	ROSS, JAMES.....	360 Peel St., Montreal.	188
1897 May 6.	ROSS, R. A.....	17 St. John St., Montreal.	1890
†1887 Feb. 3.	RUST, CHARLES HENRY	City Hall, Toronto.	1890
	<i>(Member of Council.)</i>		
1887 Jan. 20.	RUTTAN, HENRY NORLANDE ..	City Hall, Winnipeg.	
	<i>(Member of Council.)</i>		
1890 Feb. 28.	A.M. } SARGENT, CHAS. D.....	Cardinal, Ont.	1887
1894 Jan. 4.	M. }		1889
1887 Feb. 24.	SCHREIBER, COLLINGWOOD.....	Dept. of Railways, Ottawa.	1891
1887 Jan. 20.	SCOTT, WILLIAM LEMUEL.....	P.O. Box 90, Prescott, Ont.	
1887 Feb. 24.	A.M. } SHANLY, JAMES MOORE.....	346 Prince Arthur St., Montreal.	1889
1890 Feb. 27.	M. }		
1887 Feb. 24.	SHANLY, WALTER.....	St. Lawrence Hall, Montreal.	1888
1887 Jan. 20.	SHEWEN, EDWARD T. P.....	Dept. Pub. Works, St. John, N.B.	1888
1888 June 11.	SIEMENS, ALEXANDER.....	12 Queen Anne's Gate, London, Eng.	1888
1887 Feb. 24.	SIMPSON, FRANK.....	1 Wellington St. East, Toronto.	1887
1887 Feb. 3.	SMITH, A. H.....	G. T. Ry., London, Ont.	
†1887 Dec. 1.	A.M. } SMITH, CECIL BRUNSWICK,		1891
1895 Dec. 19.	M. }	Barrie, Ont.	
†1888 Feb. 9.	SMITH, HENRY BADELEY.....	Rossland, B.C.	1896
1887 Jan. 20.	SMITH, HENRY.....	Dept. Crown Lands, Toronto.	
†1887 Sept. 17.	<i>Smith, Thomas T. Vernon.</i>		1896
1887 May 12.	SOMERVILLE, FRANK LINN.....	G. T. Ry., Toronto.	1888
1894 Dec. 20.	SPENCE, JAS. BRUCE.....	Dept. Rys. and Canals, Ottawa.	
1887 Jan. 20.	<i>Sproatt, C.....</i>		
†1887 Jan. 20.	SPROULE, WILLIAM JOHNSTON, M.A.E.	Harbour Office, Montreal.	
1887 Feb. 24.	A.M. } STECKEL, LOUIS JOSEPH		
1888 Feb. 9.	M. }	Dept. Pub. Works, Ottawa.	
1889 Nov. 14.	STEWART, ALEXANDER.....	Hotel Grand, Great Falls, Montana.	1892
1897 Dec. 9.	STEWART, ALEXANDER F.....	Box 57, Bloemfontein, South Africa.	1887
†1893 Apr. 29.	<i>Stewart Donald Alexander.....</i>		G†188

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1888 Feb. 9. STEWART, GEORGE ALEXANDER.....National Park, Alberta.
1887 Jan. 20. ST. GEORGE, PERCIVAL W....1148 Dorchester St., Montreal.
(*Vice-President.*)
1891 Nov. 19. A.M. } STOESS, CHAS. ANTHONY....Kaslo, B.C.
1892 April 8. M. }
1887 Jan. 20. Stokes, J. T.....
1888 Feb. 9. SUMMERFIELD, PETER.....Portland, Oregon.
1887 Jan. 20. SURTEES, ROBERT.....City Engineer, Ottawa.
1888 June 11. SUTCLIFFE, JOHN.....Mansion Sq., Poughkeepsie, N.Y.
1887 Feb. 24. SYKES, SAMUEL H.....30 Price St., Toronto.
1887 Feb. 3. SYMMES, H. C.....Niagara Falls, Ont.
1890 Apr. 10. A.M. } SYMMES, CHAS. THOMAS W...Los Vilos, Chili.
1896 June 18. M. }
1898 May 19. SZLAPKA, HENRY.....Hamilton Bridge Works Co.,
Hamilton, Ont.

1887 Apr. 28. TATE, ROBERT FREDERICK.....294 Crawford St., Toronto.
1889 May 23. TEMPLE, EDMOND BONNER.....Confederation Life Bdg, Toronto.
1891 Jan. 29. THOMPSON, WM. GEORGE McN. Res. Engineer Welland Canal,
(*Past President and Honorary Councillor.*) St. Catharines, Ont.
1889 Dec. 19. THOMSON, FREDERICK.....7½ Chenneville St., Montreal.
†1888 Mar. 22. TORRANCE, JOHN FRASER.....
1888 Oct. 11. TRACY, COL. THOMAS H.....City Hall, Vancouver, B.C.
1888 May 17. A.M. } TRUE, ABBOTT.....Barrie, Ont.
1897 May 6. M. }
1887 Sept. 17. TRUTCH, SIR JOSEPH W.....Willett House, Bicknoller,
Taunton, Somerset, England.
1891 Oct. 8. TWINING, CHAS. RUFUS FAIRBANKS, Calle de Patoni No. 5, City of
Mexico, Mexico.
1896 Dec. 17. TYE, WM. FRANCIS....Chief Engineer C. & N. Ry.,
Trail, B.C.
1896 Dec. 17. TYRELL, JAS. WILLIAMS.....42 James St. N., Hamilton, Ont.
1888 Jan. 6. UNSWORTH, JOSEPH LENNON.....
1892 Jan. 28. VALIQUET, ULRIC.....St. Joseph de Levis, Que.
1887 Nov. 11. VALLÉE, LOUIS ANDRÉ.....Dept. Public Works, Quebec.
†1888 Jan. 9. VAUTELET, HENRI ETIENNE.....C. P. Railway, Windsor St.,
Montreal.

List of Members of

1887 Jan. 20.	WALBANK, W. MCLEA, B.A.Sc.,	214 St. James St., Montreal.
1888 Apr. 19.	A.M. } WALKER, ALFRED P.,	C. P. R., Toronto.
1898 May 19.	M. }	
1887 Jan. 20.	WALLIS, HERBERT	239 Drummond St., Montreal.
		(<i>Past President and Honorary Councillor.</i>)
1887 Jan. 20.	WANKLYN, FREDERICK LUMB,	Montreal Street Ry., Montreal, P.Q.
1888 Oct. 11.	Wasell, Edward	
1898 Dec. 8.	WATSON, ALFRED DANIEL	H. M. S. "Renown," North American Station.
1894 Dec. 20.	WALSH, EDMUND J.	83 Victoria St., Ottawa.
1887 Feb. 24.	WEBSTER, GEO. HERBERT	Chief Engineer, M. & N. W. Ry., Winnipeg, Man.
1891 Oct. 8.	Wellington, Arthur M.	
1898 May 19.	WEST, Charles W.	192 Robie St., Halifax, N.S.
1893 May 18.	WETMORE, GEORGE LUDLOW	Schreiber, Ont.
1896 Dec. 17.	WHITE-FRASER, GEORGE	18 Imperial Loan Bdg., Toronto.
1887 Jan. 20.	WHITE, THOS. HY.	Ont. & R.R.Ry., Port Arthur, Ont.
†1887 Jan. 20.	WICKSTEED, HY. K., B.A.Sc	Box 156, Cobourg, Ont.
1897 May 11.	WILLIAMS, DAVID	St. Johnsbury, Vt.
1890 May 22.	WILLIAMS, JOHN	265 Spadina Ave., Toronto.
1893 Apr. 20.	WILLIAMSON, FRANCIS STUART	52 Broadway, New York, U. S. A.
1888 Jan. 6.	WILMOT, EDWARD ASHLEY	Victoria, B.C.
		(<i>Member of Council.</i>)
1887 Feb. 24.	WILSON, JAS.	Supt. Q. V. Niagara Falls Park, Niagara Falls, Ont.
1887 Jan. 20.	Wise, Frederick A.	
1896 Dec. 17.	A.M. } WOODMAN, JOHN	Winnipeg, Man.
1897 May 6.	M. }	
1887 Jan. 20.	WRAGGE, EDMUND	Great Central Ry., 210 Marylebone Road, London, N.W., England.
1889 Dec. 19.	Yates, Henry	
1896 Feb. 27.	ZDZIARSKI, ANTOINE	120 Sadowa St., St. Petersburg, Russia.
1889 Dec. 19.	ZUCCHER, MAX A.	1211B St. Denis St., Ville St. Louis, Montreal.

ASSOCIATE MEMBERS.

<i>Date of Membership.</i>	<i>Name.</i>	<i>Address.</i>
1889 Mar. 14.	A. } ABBEY, GEO. BROKITT,	Toronto Junction, Ont.
1890 Apr. 10.	A.M. } S. } ADDIE, GEO. KYLE,	Sherbrooke, Que.
1887 Jan. 20.	S. } A.M. } AMOS, E. C.	Montreal Street Ry., Montreal.
1898 Feb. 17.	A.M. } S. } AMOS, LOUIS AUGUSTE,	61 Temple Bdg., Montreal.
1893 Apr. 20.	S. } A.M. } ARCHBALD, HENRY,	
1897 May 20.	A.M. } S. } ASHBRIDGE, WELLINGTON T.,	609 Temple Bdg., Toronto, Ont.
1893 Apr. 20.	S. } A.M. } ASTLEY, JOHN WM.,	City Engineer's Office, Winnipeg, Man.
1896 June 18.	A.M. } S. } AYLMER, HARRY BROCK,	Melbourne, P.Q.
1887 June 25.	A.Y. } A.M. } BAKER, S. HANLAN,	Cameron Block, Manistee, Mich.
1892 May 20.	BALL, EDWARD FREY,	Circle City, Alaska.
1887 Jan. 20.	S. } A.M. } BALL, JOHN PLAW, B.A.Sc., Lemont, Cook Co., Ill.	
1891 April 9.	A.M. } S. } BANNISTER, HENRY,	Montreal Gas Co., 100 Ottawa St., Montreal.
1887 June 9.	BELLANGER, ERNEST,	Room 51, Street Ry. Bldg., Montreal.
1898 Mar. 8.	BELANGER, ERNEST,	
1887 Jan. 20.	S. } A.M. } BERTRAND, J. N. TÉTU,	Rivière du Loup en bas, P.Q.
1896 Dec. 17.	A.M. } S. } BEULLAC, M. C. J.,	Dom. Bridge Co., Montreal.
1898 Dec. 8.	BICKERDIKE, ROBT., JUN.,	
1888 Dec. 6.	S. } A.M. } MAE,	Board of Trade Bdg., Montreal.
1895 May 23.	A.M. } S. } BIGGER, CHARLES A.,	63 Daly Ave., Ottawa.
1898 Mar. 24.	BONNIN, A., PROF.,	132 St. James St., Montreal.
1898 Jun. 14.	BONNIN, A., PROF.,	
1888 Feb. 9.	BOOTH, CHAS. ED. STUART,	Westmount.
1887 June 25.	S. } A.M. } BOWMAN, FRED. ALLISON,	New Glasgow Electric Co., New Glasgow, N.S.
1891 Nov. 17.	A.M. } S. } BOWMAN, LEANDER MEYER,	
1892 April 8.	BOWMAN, LEANDER MEYER,	
1897 May 6.	BRUCE, A. H. N.,	O. A. & P. S. Ry., Ottawa, Ont.
1897 May 6.	S. } A.M. } BURNETT, J. A.,	19 Shuter St., Montreal.
1898 Dec. 8.	A.M. } S. } BURNS, DAVID,	38 Resaca Place, Alleghany.
1887 Feb. 24.	BURNS, DAVID,	
1890 Feb. 27.	BURNS, WILLIAM,	Rentfrew, Ont.
1887 Feb. 24.	CAIRNIE, GORDON F.,	Melbourne, Que.
1891 Nov. 19.	S. } A.M. } CAMPBELL, WM. FRANCIS,	Care J. R. Campbell, Esq., Ritchie's Bdg., St. John, N.B.
1895 Dec. 19.	A.M. } S. } CAMPBELL, WM. FRANCIS,	

1893 Oct. 12.	CARROLL, WM. J.	Rat Portage, Ont.	18
1895 May 23.	CASGRAIN, JOS. P. B.	180 St. James St., Montreal.	18
1887 Feb. 24.	CHALONER, CHARLES	Dept. Public Works, Ottawa.	18
1896 Dec. 17.	CHAPLEAU, SAMUEL JEFFERSON	Coteau Landing, Que.	18
1889 Nov. 14.	CHAPMAN, WALTER PECK	G. T. R., Hamilton, Ont.	18
1892 May 11.	CHEWETT, JAMES HENRY	83½ York St., Toronto.	18
1887 Jan. 20.	S. } CHILDS, ARTHUR EDWARD,	333 Exchange Bdg., Boston, Mass.	18
†1894 Dec. 20.	A.M. } B.A.Sc.		18
1898 Dec. 22.	COKER, ERNEST GEORGE	McGill University, Montreal.	18
1889 Mar. 14.	S. } COPELAND, L. B.	23 Prospect St., Westmount.	18
1897 May 6.	A.M. }		18
1888 Mar. 25.	S. } COUTLÉE, CHAS. R. F.	Cascades, Co. of Soulange, Que.	18
†1894 Dec. 20.	A.M. }		18
1892 Mar. 11.	CROSSLEY, FREDERICK	C. P. Ry., Windsor St., Montreal.	18
1887 Feb. 24.	CROWLEY, CHARLES JAS.	383 Markham St., Toronto.	18
1895 May 23.	CRUMPTON, ARTHUR	G. T. R., Montreal.	18
1896 Dec. 17.	DAVIS, ALLAN ROSS	Peterboro, Ont.	18
1889 Nov. 14.	S. } DAWSON, ALEX SCOTT,	{ C. P. R., Winnipeg, Man.	18
1895 Dec. 19.	A.M. } B.A.Sc.		18
1887 June 28.	S. } DAWSON, GEORGE HERBERT,	519 Hastings St., Vancouver, B.C.	18
1892 April 8.	A.M. } B.A.Sc.		18
1898 Mar. 8.	DORÉ, J. EMIL	379 St. Hubert St., Montreal.	18
1887 June 25.	DREWRY, WILLIAM STEWART	Kaslo, B.C.	18
†1890 Mar. 14.	DRUMMOND, THOMAS, B.A.Sc.	34 St. Matthew St., Montreal.	18
1890 Apr. 10.	S. } DUFF, JOHN ANDREW	School of Prae, Science, Toronto	18
1896 June 18.	A.M. }		18
1898 Mar. 8.	DUFRESNE L. ACHILLE	97 St. James St., Montreal.	18
1897 Mar. 11.	DURLEY, R. J.	McGill University, Montreal.	18
1898 May 10.	DU TREMBLAY, PAMPHILE P. V.	St. Anne de la Perade, Que.	18
1892 Dec. 23.	EATON, DANIEL ISAAC VERNON	"The Barracks, Fredericton, N.B.	18
1898 Dec. 8.	ELMSLEY, R. SHERWOOD	93 St. Joseph St., Toronto.	18
1890 Apr. 10.	EVANS, A. KELLY	Foot of Sherburne St., Toronto.	18
1892 Nov. 11.	EWING, JAMES	Engineer's Department, C. P. R., Montreal.	18
1895 Feb. 28.	FERRARA, PETER	Wisconsin Bridge Co., 228 99th St., Milwaukee, Wis.	18
1893 Oct. 12.	FITZGIBBON, ROBT.	P.O. Box 426, Montreal.	18
1887 Jan. 20.	FLEMING, SANDFORD H.	Victoria Chambers, Ottawa.	18
1887 Jan. 25.	S. } FORNERETT, V. F. W.	Berthier-en-Haut, P.Q.	18
1897 Dec. 9.	A.M. }		18
1896 Mar. 12.	FRANCIS, WALTER JOS.	Box 228, Peterboro, Ont.	18
1898 Mar. 24.	FRASER, JOSEPH W.	Dept. Public Works, Ottawa.	18
1892 Mar. 11.	FRIPP, FRED. BOWLES	Kirkfield, Ont.	18

1887 Feb. 3. GARDINER, EDWARD..... St. Catharines, Ont.
1898 Dec. 22. GAUTHIER, H. A..... The Phoenix Bridge and
Iron Works, Montreal.
1887 Jan. 20. GAUVIN, CHAS. EDWARD..... Quebec.
1896 Dec. 17. GENEST, ARTHUR T..... Cornwall, Ont.
1888 Dec. 6. GIROUARD, Major PERCY C., R.E..... Administration of Railways,
Cairo, Egypt.
1887 June 25. Giroux, Nap. Julien.....
†1892 May 20. GOING, ALVAN SEYMOUR..... Cor. Hillside Ave. and Cook St.,
Victoria, B.C.
1891 Oct. 8. GRANT, ALEX. JOS..... Coteau Landing, Que.
1892 May 20. GREEN, CHAS. DE BLOIS..... Osoyoos, B.C.
1897 Dec. 9. GREENE, N. HANSON..... 127 Mansfield St., Montreal.
1889 Dec. 19. HANNAFORD, R. MAITLAND..... Room 26, Goodwin Bldg., Hart-
ford, Conn., U.S.
1897 Dec. 9. HANNING, GEORGE FOSTER..... C/o C. H. Rust, City Engineer,
Toronto.
1886 Mar. 12. HARRIS, JOHN WALTER..... Winnipeg, Man.
1895 Feb. 28. HAYCROFT, JAS. ISAAC..... Fontenay Woollahra, Sydney,
N.S.W., Australia.
1896 Dec. 17. HAZEN, HUGH T..... Ste. Anne de Bellevue, Que.
1888 Mar. 22. S. } HEATHCOTE, WILLIAM C. P..... Gananoque, Ont.
1895 Feb. 28. A.M. }
1892 May 11. HEBERT, EDMUND ANT..... Correo Apartado No. 99,
Puebla, Estado de Puebla,
E U. de Mexico.
1887 Feb. 24. HECKMAN, JOS. WM., B.E..... 803 Dorchester St., Montreal.
1898 Dec. 22. HEDDLE, JOHN REID..... City Engineer Office,
Hamilton, Ont.
1892 May 20. HENDERSON, THOS. RONT..... C/o of W. Anderson, Orange
Free State Ry., Bloemfontein
S. Africa.
1892 May 20. HENDRY, WM. A..... Halifax, N.S.
1893 Oct. 12. HESKETH, JAS. A..... 1640 King St. W., Toronto, Ont.
1893 Oct. 12. HIGMAN, ORMOND..... Chief Electrician
Inland Revenue Dept., Ottawa.
1887 Feb. 3. HODGINS, ARTHUR EDWARD..... Nelson, B.C.
1887 Jan. 20. S. } HOPKINS, MARSHALL WIL-
1891 April 9. A.M. } LARD, B.A.Sc..... Rat Portage, Ont.
1893 Oct. 12. HUSBANDS, ARTHUR L..... 29 Caledonia St.,
St. Johnsbury, Vt.

1887 Feb. 24. S. } IRVINE, JOHN..... C/o T. H. White, C.E.,
1898 May 19. A.M. } Port Arthur, Ont.

1898 Mar. 24. S. } JAQUAYS, HOMER M., 963 Dorchester St., Montreal.
1898 Dec. 22. A.M. }
1897 May 20. JARDINE, HUGH., Kingston, Kent Co., N.S.

G†1887 June 25.	KEELEY, DAVID HERBERT	Govt. Tel. Service, Ottawa.
1893 Apr. 20.	KER, NEWTON JAS.	City Engineer's Office, Toronto.
1893 Apr. 20.	KERRY, FORBES M.	Midway, B.C.
1888 Mar. 22.	S. { KERRY, JOHN G. G., B.A.Sc., 149 Durocher St., Montreal.	
†1894 Jan. 4.	A.M. {	
†1890 Nov. 20.	S. { KINGSTON, CHAS. BURRARD, {	Coolgardie, Western Australia.
1896 Jan. 9.	A.M. { B.A.Sc. } {	
1890 Nov. 20.	S. {	
1894 Dec. 20.	A.M. { KIPPEN, HORACE BRUCE.	Lennoxville, Que.

1893 June 18,	LAIRD, ROBERT	Rat Portage, Ont.
1888 June 27,	L ^E GEVIN, H. LAFORCE	
1887 Feb. 24,	LANGUEDOC, G. F. ERROL DEGUERRY, 180 St. James St., Montreal,	
†1887 Jan. 20,	S. { LEA, RICHARD S., B.A.Sc.,	59 Metcalfe St., Montreal,
1894 Dec. 20,	A.M. }	
1893 May 18,	LECKIE, ROET, G. E.	Torbrook, N.S.
1898 Dec. 8,	LEECH, CHARLES SAMUEL	135 Mansfield St., Montreal.
1898 Feb. 17,	LEGENDRE, JOSEPH G.	Dom. Bridge Co., Montreal.
1889 Dec. 19,	LEPROHON, C. DE BELLEFEUILLE,	51 Mansfield St., Montreal,
1887 Jan. 20,	LESAGE, THOS. W., B.A.Sc.	City Hall, Montreal.
1891 Mar. 29,	LESLIE, WM. L.	Dept. Rys. & Canals, Ottawa.
1894 Dec. 20,	LEWIS, DAVID OWEN	Nelson, B.C.
1898 Dec. 8,	LOCKE, THOMAS JOHNSON	Res. Engineers Office, Halifax,
		N.S.
1887 June 9,	S. { LOCKE, ROBT. TODD, ...	Care of F. W. W. Doane,
1891 Nov. 19,	A.M. }	City Engineer, Halifax, N.S.
1890 Apr. 10,	S. { LORDLY, HENRY R.	St. John, N.B.
1897 Mar. 11,	A.M. }	
1887 Dec. 1,	S. { LOVELACE, EDGAR S. M.,	{ 457 Elm Ave., Westmount,
1893 Apr. 19,	A.M. } B.A.Sc.,	

1895 Dec. 19. McCALLUM, ALEX. CAMPBELL,.....P. O. Box 198, Peterboro, Ont.
1898 Feb. 17. McCRADY, F. W.,.....Marble Bay Mines, Texada Ild.,
B. C.

1891 Apr. 9. McCULLOCH, AND. LAKE..... Sarnia, Ont.
1887 Feb. 24. S. } McDOWALL, ROBT..... Owen Sound, Ont.
1892 Jan. 28. A.M. }
1888 May 28. McGREEVY, CHARLES..... Berthier-en haut, Que.
1897 May 20. McMULLEN, W. E..... C. P. R., St. John, N.B.

1897 May 20. MACCUNN, J..... C.P.R. Viger Station, Montreal.
1888 Feb. 9. S. }
1896 Jan. 9. A.M. } MACDONALD, JOHN K..... City Hall, Dunkirk, N.Y.
1894 Mar. 29. MACGREGOR, J. GRANT..... Engineer's Office, C.P.R.,
Montreal.
1888 May 28. MACKENZIE, JAS. W..... Whycocomagh, B.C.
1897 Mar. 11. MARIEN, L. JOS..... Road Dept., City Hall, Montreal.
1897 Dec. 9. MARION, J. A..... Temple Bdg., Montreal.
1887 Dec. 1. S. }
1895 Dec. 19. A.M. } MATTICE, ERNEST S., B.A.Sc. 4278 Western Ave., Westmount.
1891 Jan. 29. MILLICAN, CHAS. ARTHUR..... Box 476, Winnipeg, Man.
1898 Dec. 22. MILNE, CHARLES G..... Hamilton, Ont.
1894 Mar. 29. S. }
1898 Dec. 22. A.M. } MITCHELL, CHARLES H..... Niagara Falls, Ont.
1897 May 6. MOORE, J. H..... Smith's Falls, Ont.
1896 Dec. 17. S. }
1898 May 19. A.M. } MORRISON WM. P..... Box 338, Halifax, N.S.
1888 Mar. 22. S. }
1894 Jan. 4. A.M. } MORROW, HAROLD A..... Box 184, Peterborough, Ont.
1888 Dec. 22. MOTLEY, PHILLIPS BATHURST..... Chief Engineers' Office,
C.P.R., Montreal.
1890 May 19. MURPHY, JOHN J..... Prov. Engineers' Office,
Halifax, N.S.
1898 Feb. 8. MURRAY, W. A..... 17 St. John St., Montreal.

1891 Oct. 8. S. }
1894 Oct. 11. A.M. } NEWMAN WM..... Box 442, Windsor, Ont.

1887 Feb. 3. O'HANLY, JOHN MITCHELL..... 352 Dale St., Ottawa.
1887 Oct. 16. OLIVER, STUART STIRLING..... Quebec.
1896 June 18. ORROCK, JOHN WILSON..... C.P.R., Montreal, P.Q.

1887 Jan. 20. S. } PALMER, ROBERT, ED., B.A.Sc., P.O. Box 292, Vancouver, B.C
 1891 Nov. 19. A.M. }
 1891 Apr. 9. PANI, CAMILO ENRIQUE..... Asst. Supt. Guggenheim Smelting Co., Aguascalientes, Mexico.
 1887 Feb. 24. PAPINEAU, LOUIS G..... 369 St. Denis St., Montreal.
 1887 Feb. 24. PAPINEAU, LOUIS S..... 414 St. Denis St., Montreal.
 1888 Feb. 9. S. } PEARSE, THOS. E. E..... Newport News, Va.
 1894 Dec. 20. A.M. }
 1890 Apr. 10. S. } PEDDLER, JAS. R.....
 1894 Oct. 11. A.M. }
 1897 May 6. PERLEY, GEO. E..... Dept. Pub. Works, Ottawa.
 1887 Jan. 20. PERREAULT, EDWARD EUGENE..... City Hall, Ottawa.
 1897 Mar. 11. PIGOT, C. J..... Q. M. & C. Ry., Quebec.
 1888 May 19. PILSWORTH, WM. ROBERT..... Kamloops, B.C.
 1887 Feb. 24. S. } PINHEY, CHAS. H..... 630 Wellington St., Ottawa.
 1894 Jan. 4. A.M. }
 1893 Apr. 20. POTTER, ALEXANDER..... 137 Broadway, New York.

1887 June 25. S. } REID, WM. MURRAY, B.A.Sc., 478 Guy St., Montreal.
 1895 Feb. 28. A.M. }
 1887 Feb. 24. S. } RICHARDSON, GEO. H..... 36 St. Joseph St., Toronto.
 1891 May 23. A.M. }
 1894 Dec. 20. ROSS, GEORGE, B.A.Sc..... Welland, Ont.
 1897 Mar. 11. ROSS, J. W. L..... Box 428, Cornwall, Ont.
 1898 Feb. 8. ROY, GEORGE P..... 25 Rue Lachèvrelière, Que.
 1887 Feb. 24. ROY, JOSEPH R..... New Westminster, B.C.
 1893 Dec. 22. ROY, R. MAITLAND..... 63 George St., Hamilton, Ont.

1891 April 9. SAUNDERS, B. JOHNSTON, B.A.Sc.... Fort William, Ont.
 1888 Mar. 22. S. } SCHWITZER, JOHN EDWARD, } Rat Portage, Ont.
 1896 Mar. 12. A.M. } B.A.Sc.....
 1892 April 8. SHEARWOOD, FRED. PERRY..... Dom. Bridge Co., Montreal.
 1896 Dec. 17. SIMONDS, FRANCIS EDWARD..... Gladstone, Man.
 1898 Mar. 24. SKAIFE, LEWIS..... 151 St. James St., Montreal.
 1887 May 12. S. } SKAIFE, WILFRED T., B.A.Sc., 630 Sherbrooke St., Montreal.
 1888 Feb. 9. A.M. }
 1887 June 25. SMITH, WM. HENRY CHATTERTON....
 1888 June 27. S. } SPENCE, ALEXANDER W..... Dept. Rys. & Canals, Ottawa.
 1896 Mar. 12. A.M. }
 1898 May 19. ST. LAURENT, ARTHUR..... Dept. of Public Works, Ottawa.
 1891 Nov. 19. STEERLE, EDWARD CHAS..... Port Arthur, Ont.

1890 Feb. 27. S. } STEVENS, ALFRED JAS., I.C. Ry., Moncton, N.B.
1896 Mar. 12. A.M. } STEVENS, ALFRED JAS., I.C. Ry., Moncton, N.B.
1887 Dec. 9. STEWART, ANGUS M., Kentville, N.S.
1888 Mar. 22. S. } STOVE, ERNEST ALBERT, } 127 Lewis Ave., Westmount.
†1895 Feb. 23. A.M. } B.A.Sc., }
1898 Feb. 17. STUART, ALLAN K., Vancouver, B.C.
1888 Mar. 22. S. } STUART H. B., G.T.R., Montreal.
1898 Feb. 17. A.M. }

1888 Mar. 22. THOMAS, ALFRED., Room 792 Arcade Building,
Cleveland, Ohio.
1887 Jan. 20. THOMPSON, ROSS., Port Arthur, Ont.
†1894 Jan. 4. THOMPSON, WILLIAM T., M.A.Sc., Qu'Appelle Sta., Assa., N.W.T.
1887 Feb. 9. S. } THOMSON, W. CHASE., Care of Dom. Bridge Co.,
1894 Jan. 4. A.M. } Montreal.
1889 Nov. 14. TOMS, LEWIS WM., Coomb Martin Rectory, Ilfracombe, North Devon, Eng.
1889 Jan. 3. S. } T. REMBLAY, THOMAS., Sherbrooke, Que.
1898 Mar. 8. A.M. }
1888 Feb. 9. S. } TYRRELL, HY. GRATTAN., 31 Jefferson St. W.,
1889 Dec. 19. A.M. } Newton, Mass.

1891 April 9. VAN BUSKIRK, WM. FRASER., Stratford, Ont.
1887 Jan. 20. VAXIER, L. EMILE., Imperial Building, St. James
St., Montreal.
1893 Feb. 17. VINDIN, JAS. STANLEY., 270 Bleury St., Montreal.

1898 Dec. 22. WALTERS, JOHN HUTCH., 90 Manee St., Montreal.
1894 Mar. 29. WARNER, WM. GEORGE., 60 Confederation Life Bldg.,
Toronto.
1894 Dec. 20. WHEATON, LEWIS H., Yarmouth, N.S.
1894 Jan. 4. WILFORD, FRED. R., Iroquois, Ont.
1887 Feb. 24. S. } WILLIAMS, M. L., B.A.Sc., 17 St. John St., Montreal.
1898 Dec. 8. A.M. }
1887 June 22. WOODS, JOS. EDWARD., Aylmer, P.Q.
1893 May 18. S. } WORSFOLD, C. C., New Westminster, B.C.
1898 Mar. 24. A.M. }
a.

ASSOCIATES.

(A. Can. Soc. C. E.)

<i>Date of Membership.</i>	<i>Name.</i>	<i>Address.</i>
1895 Dec. 19.	ALLAN, FRED. G. B.	Napanee Mills, Ont.
1898 Mar. 11.	ARMSTRONG, D. N.	St. Lawrence Portland Cement Co., Montreal.

1889 Feb. 14. BARR, MARSHALL D. 39 Cortland St., New York.
 1891 Apr. 9. BELL, JOHN, Q.C. Belleville, Ont.
 1889 Nov. 14. BRAINERD, THOMAS C., M.D. 171 Drummond St., Montreal.
 1895 Feb. 28. BUDDEN, HANBURY A. 1090 Dorchester, Montreal.

1889 Jan. 3. COWANS, JOHN R. Springhill, N.S.

1898 Mar. 11. DUCK, HENRY F. 310 Front St., Toronto.

1891 Nov. 19. GIBSON, WILLIAM, M.P. Beamsville, Ont.
 1887 May 17. GRIFFIN, CHARLES GEORGE. Ship Canal, Sault Ste. Marie, Ont.

1889 Dec. 19. HENDRIE, WILLIAM. Hamilton, Ont.
 1887 Feb. 3. A.M. } HOOPER, GEORGE R. W. Dow & Co., Montreal.
 1890 Feb. 27. A. } }
 1891 May 21. HOWLAND, OLIVER AITKEN. 103 Bay St., Toronto.

1888 Mar. 22. ISBISTER, JAMES. 73 Daly Ave., Ottawa.
 1888 Mar. 22. IVES, HUBERT R. 200 University St., Montreal.

1893 Apr. 20. KAMMERER, JACOB A. 38 York St., Toronto.

1887 Jan. 20. LECKIE, R. G. The Londonderry Iron Co.,
 Londonderry, N.S.

1891 Nov. 19. McFARLAND, JOS. WALTER..... P.O. Box 206, Vancouver, B.C.
1888 Apr. 19. MCKENZIE, JOHN..... New Westminster, B.C.
1893 Apr. 20. MCLAREN, HARRY, B.A..... 67 Mansfield St., Montreal.
†1888 Feb. 9. McLENNAN, JOHN S., B.A..... 95 Milk St., Boston, Mass.
1889 Jan. 3. *Molson, John Henry R.*.....

1896 Dec. 17. NICHOLLS, FREDERIC..... 65 Front St. W., Toronto.

1888 May 17. OSLER, BRITTON BATH, Q.C..... 23 Toronto St., Toronto.

1888 Oct. 11. POLSON, FRANKLIN BATES..... Polson Iron Works, Toronto.
1888 May 17. PRICE, BRUCE..... 150 Fifth Avenue, New York.

1890 Nov. 20. RATHBUN, EDWARD WILKES..... Deseronto, Ont.
1887 Jan. 20. *Reaers, George R.*.....
1887 June 9. REID, ROBERT GILLESPIE..... Room 28 Canada Life Bldg.,
Montreal.
1891 Jan. 29. REID, WILLIAM GILLESPIE..... 30 St. John St., Montreal.
1887 Jan. 20. *Reynolds, F. H.*.....
1887 Jan. 20. RIELLE, JOSEPH..... New York Life Bldg., Place
d'Armes Sq., Montreal.
1890 Feb. 27. ROBERTSON, J. C..... St. John, N.B.
1888 May 17. RYAN, HUGH..... 101 Freehold Loan Bldg.,
Toronto.

1890 Apr. 10. *Scott J. Philip.*.....
1890 Feb. 27. SHEARER, JAMES TRAIL..... Montreal.
1889 May 23. LORD STRATHCONA AND MOUNT
ROYAL, G.C.M.G..... 1157 Dorchester St., Montreal.
1888 Mar. 22. SUTHERLAND, KENNETH..... Kentville, N.S.
1889 Feb. 14. SWINYARD, THOMAS M..... St. Augustine, Florida.

1887 May 12. TROTTER, WALLACE CUTHBERT..... St. Johns, P.Q.

1888 May 17. VAN HORNE, *Sir* WILLIAM C.,
K.C.M.G..... C.P.R., Montreal.

1892 Jan. 28. WEDDELL, ROBERT..... Trenton, Ont.
1894 Mar. 29. WILSON, HARRY..... 23 Montcalm St., Montreal.

STUDENTS.

(Stud. Can. Soc. C. E.)

<i>Date of Membership.</i>	<i>Name.</i>	<i>Address.</i>
1897 Mar. 11.	ALEXANDER, RICHARD C. F.	Chief Engineer's Office, C.P.R., Montreal.
1893 Apr. 20.	ALISON, THOMAS H., B.A.Sc.	39 Cortland St., New York.
1898 Feb. 17.	ANDERSON, W. B.	64 Cooper St., Ottawa.
1895 May 23.	ANGUS, WILLIAM F.	240 Drummond St., Montreal.
1888 May 17.	ARCHIBALD, CYRUS W.	I.C.R., Truro, N.S.
1894 Oct. 11.	ARMSTRONG, CHAS. J.	261 Peel St., Montreal.
1898 Mar. 24.	BACHAUD, G. A.	335 St Hubert St., Montreal.
1895 May 23.	BAKER, HUGH C.	Perkin's Mills, P.Q.
1891 Oct. 8.	BEATTY, HERBERT JOHN.	Pembroke, Ont.
1898 Dec. 8.	BEAUDRY, D. L. G. DE SALABERRY	67 Dubord St., Montreal.
1898 Mar. 24.	BOND, F. LORNE.	42 Union Ave., Montreal.
1897 Dec. 9.	BOSWELL, E. J.	C. P. R., Cranbrook, B.C.
1898 Dec. 8.	BOURGEOIS, SAMUEL.	St. Hyacinthe, Que.
1896 Dec. 17.	BOWMAN, DAVID.	Berlin, Ont.
1890 Apr. 10.	BOWMAN, F. M.	62 Jackson St., Bellevue, Alleghany, Penn.
1887 Feb. 24.	BROWN, D. B.	Cornwall, Ont.
1887 Feb. 24.	BUCKE, M. A.	Kaslo, B.C.
1894 Mar. 29.	CARTER, WM. FRANCIS, B.A.Sc.	123 Park Ave., Montreal.
1887 Feb. 24.	CLEMENT, W. A.	City Engineer's Office, Toronto, O.
1887 Feb. 24.	Colquhoun, W. E.	
1898 Mar. 24.	CORRIEVEAU, RAOUL DE B.	17 Mayor St., Montreal.
1889 Dec. 19.	COSTIGAN, J. S., B.A.Sc.	1272 Dorchester St., Montreal.
1892 Mar. 11.	COURTNEY, REGINALD MORTIMER.	21 Drummond St., Ottawa.
1898 Mar. 22.	COVERT, J. S.	King Bridge Co., Cleveland, Ohio.
†1892 Jan. 28.	CREIGHTON, FRANK ALBRO.	Newport, Hants Co., N.S.

1898 Dec. 22. DEAN, BERTRAM DODD..... Hamilton, Ont.
†1894 Mar. 29. DENIS, THÉOPHILE..... Geological Survey Dept.,
Mining Bureau, Ottawa.
1888 Jan. 6. DENISON, W. S., B.A.Sc.... Denison's Mills, P.Q.
1895 May 23. DIBBLEE, HARRIE MILES..... Care W. F. Tye, Trail, B.C.
1891 April 9. DOMVILLE, JAS. WM..... 9 Drummond St., Montreal.
1890 May 22. DOUGLAS, JAS. ATKINSON..... Lighting Dept. Royal Electric
Co., Montreal.
1893 May 18. DRAPER, WILLIAM N..... New Westminster, B.C.
1891 May 21. DUFF, WM. ARCHIBALD, B.A.Sc..... McGill University, Montreal.
1894 Mar. 29. DUPRESNE, ALEX. R..... Box 29, Coteau Landing, P.Q.
1898 Mar. 24. DU TREMBLAY, PAMPHILLE, JR..... Ste. Anne de la Perade, Que.
1894 Mar. 29. DYER, WM. E. L., B.A.Sc..... 258 Wood Ave., Montreal.

1898 Dec. 8. EWART, GEORGE R..... McGill College, Montreal.

1889 Dec. 19. FAIRMAN, F. W..... Temple Building,
St. James St., Montreal.
†1897 Mar. 11. FARMER, J. T..... Dept. Agriculture, Ottawa.
1887 Nov. 4. FELLOWES, F. L..... 30 Summerhill Ave., Montreal.

1898 Mar. 24. GAGNON, LOUIS FREDERIC..... 25 Melbourne Ave., Westmount.
1887 Feb. 24. GIBBONS, JAMES..... Renfrew, Ont.
1889 May 23. GOODWIN, E. P..... Baie Verte, N.B.
1894 Mar. 29. GOODWIN, JAS. B..... Grimsby, Ont.
1898 Mar. 24. GOUGH, RICHARD T..... 74 Victoria St., Montreal.
1892 April 8. GREENBERG, LOUIS, B.A.Sc..... 1998 St. Catherine St., Montreal.
1895 May 23. GREIG, ALEX. R..... Can. Atlantic Ry., Ottawa.
1897 Dec. 9. GZOWSKI, C. S. JR..... 32 St. Joseph St., Toronto.

1896 Dec. 17. HANDY, EDWARD FRANCIS T..... Emsdale, Ont.
†1894 Jan. 4. HARE, GEORGE G.... Care W. F. Tye, Trail, B.C.
1894 Mar. 29. HART, OROBIO C., B.A.Sc..... Maiden, Mont.
1888 Dec. 6. HAWKINS, A. H., B.A.Sc..... Box 404, Vancouver, B.C.

List of Students of

1895 Dec. 19.	HOLMES, ARCH. R.	Chief Engr's Office I. C. Ry., Moncton, N.B.	18
1893 Dec. 8.	HOULISTOK, JOHN	Three Rivers, Que.	18
1887 Apr. 14.	HUNTER, R. E.	644 St. Denis St., Montreal.	18
1891 Oct. 8.	HUTCHEON, JAMES	Guelph, Ont.	18
1898 Mar. 24.	IRVING, T. T.	Engineer's Office, Bonaventure Depot, Montreal.	18
1895 Dec. 19.	JERMYN, FRED. L.	92 Chenneville St., Montreal.	18
1894 Oct. 11.	JOHNSON, SYDNEY M., B.A.Sc.	Civil & Mining Engineer, Greenwood, B.C.	18
1896 Nov. 19.	JONES, THOS. HARRISON	65 Front St. W., Toronto.	18
1894 Jan. 4.	KILLALY, HAMILTON M., B.A.	Care of G. A. Keefer, B. & N. Ry., Ockonook, Idaho, U.S.	18
1891 Nov. 19.	KINNEAR, GUY STANHOPE	Sussex Vale, N.B.	18
1893 May 18.	LAIDLAW, JAMES T.	Cripple Creek, Col.	18
1889 Dec. 19.	LAMBERT, FRANK, B.A.Sc.	University of Zurich, Zurich, Germany.	18
1890 May 22.	LANE, ANDREW	Maryland Steel Co., Sparrows Point, Md.	18
1894 Mar. 29.	LARMGNTH, JOHN H., B.A.Sc.	Central Chambers, Ottawa.	18
1887 Feb. 24.	LEASK, JOHN L.	187 Crawford St., Toronto.	18
1898 May 19.	LEFEBORE, ALFRED G. TULLY	Lakefield, Ont.	18
1887 Feb. 24.	LOIGNON, A.	24 St. Augustine St., Montreal	18
1887 Feb. 24.	LOIGNON, E.	360 Seigneurs St., Montreal.	18
1894 Mar. 29.	LOXERGAN, GERALD J., B.A.Sc.	Buckingham, Que.	18
1887 June 25.	Lough, William H.		†18
1895 Feb. 28.	MCENTEE, BERNARD, B.A.Sc.	28 Queen St. E., Toronto.	18
1895 May 23.	MCGILLIVRAY, ARCH	New Westminster, B.C.	18
1887 Apr. 28.	McGREGOR, J. H.	5 Sisters Block, Victoria, B.C.	18
1890 Nov. 20.	McGREGOR, J. MURRAY, B.A.Sc.	Slocan, B.C.	18
1887 Jan. 20.	McKenzie, C. P.		18
1887 Jan. 20.	MCLENNAN, M. J., B.A.Sc.	Williamstown, Ont.	18
1894 Mar. 29.	MCPherson, ARCH. J.	Box 610, Galt, Ont.	18

1896 June 18. MACDONALD, WM. ANGUS.....16 Compton Ave., Halifax, N.S.
1887 Jan. 20. MACFARLANE, M. C. B.A.Sc.....Almonte, Ont.
1894 Mar. 29. MACKAY, HENRY M., B.A., B.A.Sc., Tidal Survey Office, Marine
Dept., Ottawa.
1897 Mar. 11. MACLEOD, GEO. R.....McGill University Observatory,
Montreal.
1897 May 20. MACPHAIL, WM. M., B.A.Sc.....Midland Ry. Co., Windsor, N.S.
1895 Dec. 19. MATHESON, ARTHUR J.....Cascades Point, Que.
1897 May 20. MATHESON, ERNEST G.....61 Cathcart St., Montreal.
1897 Mar. 11. MATTICE, GREGOR LENNOX.....38 Park Ave., Montreal.
1895 Dec. 19. MAUNSELL, E. ST. JOHN.....Fredericton, N.B.
1887 Feb. 24. MILL, F. X.....Glenburnie, Maria, P.Q.
1889 Mar. 14. *Mitchell Geo.*.....
1895 May 23. MOODIE, KENNETH, B.A.Sc.....5754 Washington Ave.,
Chicago, Ill.
1887 Jan. 20. MOONEY, G. W., B.A.Sc.....Ausable, N.Y.
1889 Feb. 14. MURPHY, CORNELIUS JOS.....Halifax, N.S.

1897 Dec. 9. NEWCOME, A. B.....McGill University, Montreal.

1891 Mar. 29. OGILVIE, WM. M.....Cummings Bridge, Ont.

1893 Mar. 24. PARENT, JAMES HECTOR.....City Hall, Montreal.
1898 Mar. 24. PARIZEAU, HENRI D.....137 St. Denis St., Montreal.

1887 Apr. 28. RAMSAY, H. M., B.A.Sc.....M.E. Office, P.R.R. Altoona,
Pa.
1890 May 22. RANKIN, J., JUN., B.A.Sc.....Inspector for R. W. Hildreth
& Co., Lukens Iron & Steel
Co., Coatesville, Pa.

1887 Jan. 20. REED, C. B., B.A.Sc.....4130 Lake Ave., Chicago, Ill.
1894 Dec. 20. REID, RORT. G., JUN.....275 Drummond St., Montreal.
†1894 Mar. 29. REINHARDT, CARL.....340 Mountain St., Montreal.
1896 June 18. RENWICK, HALIBURTON PAUL.....Box 594, Rossland, B.C.
1892 Mar. 11. ROBERT, ALPH. M. A., B.A.Sc.....163 St. Patrick St., Ottawa.
1895 May 23. ROBINS, SAMPSON P., B.A.Sc.....Linotype Co., 156 St Antoine
St., Montreal.
1891 Nov. 19. ROSE, GEO. GILDERSLEEVE.....Morrisburgh, Ont.
1888 Apr. 19. ROSS, D. A.....112 Winchester St., Toronto.
1897 Mar. 11. RUSSELL, A. MONTGOMERY.....469 Guy St., Montreal.
1893 May 18. RUSSELL, ROBERT K.....Pembroke, Ont.
1888 Feb. 9. RUSSELL, W.....Pembroke, Ont.
1889 Mar. 14. RUTHERFORD, F.....Pueblo S. & F. Co., Pueblo,
Col.

1898 Dec. 22.	SANDERS, WM. ALBERT.....	P.O. Box 1085, montreal.	
1895 May 23.	SCAMMELL, J. KIMBALL, B.A.Sc....	Fairville, N.B.	
1896 Jan. 9.	SCOTT, WALTER MOFFAT, B.A.Sc...	Box 352, Charlottetown, P.E.I.	
1891 Jan. 29.	SHERATON, ROBT. LEONARD.....	No. 2 Pelham Place, Boston, Mass.	61,
1887 Feb. 24.	SHILLINGLAW, W. H.....	Box 182, Brandon, Man.	
1890 May 20.	SMART, JOHN ABLER.....		
†1894 Dec. 20.	SMITH, ANGUS.....	Ridgetown, Ont.	
†1888 Feb. 9.	SMITH, G. S., B.A.Sc....	The Ball & Wood Co., Elizabeth N.J.	
1893 May 18.	SQUIRE, RICHARD H., B.A.Sc.	114 Darling St., Brantford, Ont.	
1898 Mar. 24.	ST. GEORGE, HENRY LUXEMORE	1148 Dorchester, Montreal.	
1898 Mar. 24.	ST. GEORGE, FRANK TOWNSHEND	do do	
1890 Nov. 20.	STEVENSON JAS. ALBERT, B.A.Sc...	Care of A. P. Gardner, 550 Pearl St., New York, N.Y.	189
1887 Dec. 1.	STRONG, A. W., B.A.Sc....	High School, Montreal.	
1898 May 10.	STRICKLAND, T. P.....	33½ Metcalfe St., Montreal.	189
1894 Oct. 11.	SULLIVAN, EDWARD A.....	Sault Ste. Marie, Ont.	
1898 Dec. 8.	SYER, WILLIAM E.....	Niagara-on-the-Lake, Ont.	189
1887 Jan. 20.	TAYLOR, D., B.A.Sc.....	1041-42 Lumber Exchange, Minneapolis, Minn.	
1898 Apr. 12.	TAYLOR, FRANK.....	C.P.R., Dalhousie Sq. Stn., Montreal	1899
†1890 Nov. 20.	TIGHE, JAMES, B.A.Sc.....	City Hall, Holyoke, Mass.	1890
1890 Nov. 20.	WAINWRIGHT, JAS. GEO. R., B.A.Sc., C.P.R.,	St. John, N.B.	1898
1891 Nov. 16.	WALLACE, JOHN WM. MARTIN,.....	42 Mountain Hill, Quebec.	1898
1898 May 10.	WATEROUS, C.A	Brantford, Ont.	1899
1890 Apr. 10.	WIGGINS, T. H.....	Cornwall, Ont.	1896
1893 Apr. 20.	WILKIE, OCTAVIUS B. N.....	Langley, B.C.	1899
1896 June 18.	WILKIN, F. A.....	Rossland, B.C.	1894
			1898
			1899
			1899
			1899
			1899
			1899

The following were elected Corporate Members under the Quebec Act, Vic. 61, Chap. 32:—

MEMBERS.

(M. Can. Soc. C. E.)

<i>Date of Membership.</i>	<i>Name.</i>	<i>Address.</i>
1899 Jan. 5.	BELKNAP, S. F.	C.P.R., Montreal.
1897 May 20.	A. } BERLINGUET, F. X.	209 St. John St., Quebec.
1899 Jan. 31.	M. } A. }	

1898 Nov. 8. DEDMAN, ARTHUR 214 St. James St., Montreal.

1898 Nov. 8. KELSCH, R. S. 38 Victoria Sq., Montreal.

1899 Jan. 4. PRINGLE, ALEXANDER 107 St. James St., Montreal.

ASSOCIATE MEMBERS.

(A. M. Can. Soc. C. E.)

1899 Jan. 4.	AMOS, ARTHUR	Sorel, Que.
1890 May 22.	S. }	
1899 Jan. 4.	A.M. } ARCAD, O.	73 Dubord St., Montreal.
1898 Oct. 11.	AUCLAIR, H. L.	15 St. Lambert St., Montreal.

1898 Nov. 8. BARTON, DONALD S. Lachine Rapids H. & L. Co.,
McCORD & Seminary Sts.,
Montreal.

1899 Jan. 31. BEAUCHAMP, J. A. T. St. Hyacinthe, Que.

1896 Mar. 12. S. } BISHOP, WILLIAM I. 58 Imperial Bldg., Montreal.

1899 Jan. 4. A.M. } BISHOP, WILLIAM I. 58 Imperial Bldg., Montreal.

1894 Mar. 29. S. } BLACK, JOHN D. 100 Union Ave., Montreal.

1898 Dec. 22. A.M. } BLACK, JOHN D. 100 Union Ave., Montreal.

1898 Dec. 20. BOURGEOIS, JOHN. Three Rivers, Que.

1899 Jan. 5. BOWDEN, WILLIAM A. 22 Victoria St., Montreal.

1899 Jan. 4. BOYER, AURELIEN. Public Works Dept., Ottawa.

1899 Jan. 4. BROOKE, JOHN. Q. M. & C. Ry., Quebec.

1899 Jan. 5. CHARBONNEAU, T. J. 15 St. Lambert Hill, Montreal.

1897 May 6. S. } COLPITTS, W. W. Moncton, N.B.

1899 Jan. 5. A.M. } COLPITTS, W. W. Moncton, N.B.

1899 Jan. 23. DEMERS, LEOPOLD J.....1586½ Notre Dame St., Montreal
 1899 Jan. 31. DESY, L. A.....Harbour Office, Montreal.
 1898 Nov. 8. DORVAL, HENRY E. W.....Room 51, Montreal St. Ry.
 Bldg., Montreal.
 1899 Jan. 31. DEMAIS, PAUL T. C.....Hull, Que.

1888 Dec. 6. S. } ELIACOTT, C. H., B.A. Sc. Westmount.
 1899 Jan. 9. A.M. } ELIACOTT, C. H., B.A. Sc. Westmount.

1899 Jan. 9. FUSEY, L. E. F.....457 Drolet St., Montreal.

1899 Jan. 5. GALLAGHER, JEREMIAH.....City Hall, Quebec.
 1899 Jan. 5. GASTONGUAY, J. N.....Quebec.
 1899 Jan. 9. GOULET, J. A. G.....Valleyfield, Que.
 1899 Jan. 9. GRANT, GORDON.....Care of A. E. Doucet, C.E.,
 Arrowhead, B.C.

1899 Jan. 4. HENRY, GABRIEL.....89 Artillery St., Quebec.
 1899 Jan. 9. HERDT, LOUIS A.....62 Laval Ave., Montreal.

1899 Jan. 5. JANIN, GEORGE.....1709 Notre Dame St., Montreal

1899 Jan. 5. KIRK, THOMAS.....76 St. Gabriel St., Montreal.

1899 Jan. 9. LABERGE, FRANCOIS C.....66 St. James St., Montreal.
 1899 Jan. 9. LABIECHE-VIGER, G. E.....Room 205, 1709 Notre Dame St.,
 Montreal.
 1889 Feb. 14. S. } LAFONTAINE, EMERY.....Public Works Dept., Ottawa.
 1899 Jan. 4. A.M. } LAFONTAINE, EMERY.....Public Works Dept., Ottawa.
 1899 Jan. 5. LAFOREST, J. O. ALFRED.....City Hall, Montreal.
 1899 Jan. 5. LARCHELLE, A. H.....Box 24, Levis, Que.
 1898 Dec. 20. LAURIN, JAMES.....Care of J. E. Vanier, Imperial
 Bldg., Montreal.
 1898 Dec. 20. LEDUC, C.....35 St. James St., Montreal.
 1898 Dec. 20. LEFEBVRE, F. X.....Room 66, 107 St. James St.,
 Montreal.
 1898 Nov. 8. LEFRANCOIS, N. J. EMILE.....177 rue de la Reine, St. Roch,
 Quebec.
 1899 Jan. 5. LEGENDRE, F. O. A.....St. Joseph de Beaupre, Quebec.
 1899 Jan. 4. LEMIRE, J. T.....155½ St. Chas. Borromee St.,
 Montreal.

1899 Jan. 5. LEMOINE, C. E. 153 Scott St., Quebec.
1898 Dec. 20. LESAGE, SIMON. 17 Place d'Armes Hill, Montreal.
1896 Mar. 12. S. } LINDSAY, HAMILTON. Regent St., Kingston, Ont.
1899 Jan. 31. A.M. } 1899 Jan. 4. LOCKHART, H. R. 491G St., Urbain St., Montreal.

1897 May 6. S. } MCCARTHY, G. A. Moncton, N.B.
1899 Jan. 23. A.M. } 1899 Jan. 4. MASSEY, ARTHUR W. K. Dom. Bridge Co., Montreal.
1898 Dec. 20. MICHAUD, ANDRE. 356 Berri St., Montreal.
1899 Jan. 23. MICHAUD, JOSEPH LOUIS. Ste. Anne de Bellevue, Que.
1898 Dec. 13. MIGNAULT, JOSEPH O'C. Room 6, Savings Bank Bldg., Montreal.
1898 June 14. MONSARRAT, C. N. C.P.R. Montreal.
1894 Mar. 29. S. } MUDGE, ARTHUR L. } Royal Electric Co., Montreal.
1899 Jan. 31. A.M. } B.A.Sc. 1899 Jan. 9. MULLARKEY, JOHN P. Street Ry. Chambers, Montreal.

1899 Jan. 9. NELSON, J. M. Harbour Office, Montreal.

1899 Jan. 5. O'DONNELL, HUGH. City Hall, Quebec.
1887 Apr. 11. S. } OGILVY, R. F. 1833 Notre Dame St., Montreal.
1899 Jan. 31. A.M. }

1899 Jan. 5. PARADIS, PAUL. 432 Dorchester St., Montreal.
1894 Mar. 29. S. } PARENT, P. E. Public Works Dept., Sorel, Que.
1899 Jan. 9. A.M. } 1898 Oct. 11. PERRAULT, MAURICE. 15 St. Lambert Hill, Montreal.
1898 Dec. 20. PERRIN, VINCENT. 429 Bachel St., Montreal.
1898 Nov. 8. PERRON, P. A. Esquinoax Point, Que.
1899 Jan. 9. PICHE, J. P. Terrebonne, Que.
1899 Jan. 5. PINET, A. J. 70 Laval Ave., Montreal.
1899 Jan. 4. PRIEUR, C. A. 15 St. Lambert Hill, Montreal

1899 Jan. 4. QUERFURTH, J. W. T. E. 143 St. Alexander St., Montreal

1895 May 23. S. } ROGERS, ROBT. P. Grafton, Ont.
1899 Jan. 31. A.M. } 1899 Jan. 4. RUSSELL, WILLIAM R. Quebec.

1898 Dec. 20. **SALISBURY, FRANK A.** A. & L. S. Ry., 97 St James St.
Montreal.

1899 Jan. 5. **SIMARD, ONESIME**..... St. Emil de Suffolk, Que.

1899 Jan. 23. **SIROIS, J. EUSTACHE**..... Ste. Anne de la Pocatiere, Que.

1898 Dec. 20. **SMITH, ARTHUR**..... Quebec Observatory, Quebec.

1899 Jan. 31. **SPENARD, J.** Mastai, Que.

1899 Jan. 9. **SULLIVAN, J. H.** Box 49, Valleyfield, Que.

1898 Oct. 11. **TALBOT, P. CLEOPHAS**..... Montmagny, Que.

1894 Jan. 4. **S.** }
1899 Jan. 31. **A.M.** } **THORNTON, KENNETH B.** Royal Electric Co., Montreal.

1898 Nov. 8. **VINCENT, ARTHUR**..... 97 St. James St., Montreal.

1899 Jan. 5. **WALLBERG, E. A.** Bell Telephone Bldg., Montreal

STUDENT.

(Stud. Can. Soc. C. E.)

1898 Oct. 11. **ROY, GEORGE**..... 28 Lachevrotiere, St., Quebec.

LIST OF MEMBERS.

ADDITIONS SINCE FEBRUARY 1ST TO MARCH 16TH, 1899.

MEMBERS.

1899 Mar. 16 CARTWRIGHT, CONWAY EDWARD, ... Portsmouth, Ont.

1899 Mar. 16. JOHNSTON, HENRY W., jun., Halifax, N.S.

1891 Apr. 9 A.M. }
1899 Mar. 16 M. } SAUNDERS, B. JOHNSTON, B.A.Sc. Fort William, Ont.

ASSOCIATE MEMBERS.

1897 May 6 S. }
1899 Mar. 16 A.M. } COLPITTS, WALTER W., Moncton, N.B.
1899 Mar. 16. CONNOR, ARTHUR WM., Hamilton Bridge Works Co.,
Hamilton, Ont.

1888 Dec. 6 S. }
1899 Mar. 16 A.M. } ELLACOTT, CHAS. H., B.A.Sc. Westmount, Que.

1899 Mar. 16. FUSEY, L. ERNEST F., 457 Drolet St., Montreal.

1899 Mar. 16. GOULET, JOSEPH A. G., Valleyfield, Que.
1899 Mar. 16. GRANT, GORDON, 21 Drummond St., Montreal.

1899 Mar. 16. LABERGE, FRS. CHARLES, 66 St. James St., Montreal.
1899 Mar. 16. LABIECHE-VIGER, GODFROY E., 1709 Notre Dame St., Montreal.
1899 Mar. 16. LAMB, HENRY JOHN, C.P.R., Winnipeg, Man.
1896 Mar. 12 S. }
1899 Mar. 16 A.M. } LINDSAY, HAMILTON, Regent St., Kingston, Ont.

1897 May 6 S. }
1899 Mar. 16 A.M. } McCARTHY, GEORGE A., Moncton, N.B.
1894 Mar. 29 S. }
1899 Mar. 16 A.M. } MUDGE, ARTHUR L., B.A. Sc. 5 Crescent St., Montreal.

1887 Apr. 14 S. } OGILVY, ROBERT F. 1833 Notre Dame St., Montreal.
 1899 Mar. 16 A.M. }

1894 Mar. 29 S. } PARENT, PAUL ETIENNE. Public Works Dept., Sorel, Q.
 1899 Mar. 16 A.M. }
 1899 Mar. 16. PICHÉ, JOSEPH PIERRE. Terrebonne, Que.

1899 Mar. 16. SULLIVAN, JOHN HUGH. Box 49, Valleyfield, Que.

1894 Jan. 4 S. } THORNTON, KENNETH B. Royal Electric Co., Montreal.
 1899 Mar. 16 A.M. }

ASSOCIATES.

1899 Mar. 16. AIYAR, A. V. RAMACHANDRA. Public Works Dept., Vellore, India.

1899 Mar. 16. CORRIEVEAU, ALBERT J. DEB. 17 Place d'Armes, Montreal.

1899 Mar. 16. EVANS, OWEN NORTON. Box 995, Montreal.

1899 Mar. 16. FETHERSTONHAUGH, EDWARD J. Canada Life Bldg., Montreal.

STUDENTS.

1899 Mar. 16. ALLAN, JOHN LORN. 15 Victoria Rd., Halifax, N.S.
 1899 Mar. 16. ALLEN, SAMUEL JAMES. 11 Burnside Place, Montreal.
 1899 Mar. 16. ANGLIN, JAMES PENROSE. McGill Engineering Building, Montreal.
 1899 Mar. 16. ARCHER, AUGUSTUS R. McGill University, Montreal.
 1899 Mar. 16. ARKLEY, LORNE MCKENZIE. 52 Beaver Hall Hill, Montreal.
 1899 Mar. 16. AUSTIN, CLAUDE V. C. McGill University, Montreal.

1899 Mar. 16. BALFOUR, REGINALD H. 248 Mountain St., Montreal.
 1899 Mar. 16. BALLOCH, GUY RALSTON. Centreville, N.B.
 1899 Mar. 16. BAULNE, STANISLAS ALBERT. 130 Berri St., Montreal.
 1899 Mar. 16. BECK, ALFRED E. 32 McTavish St., Montreal.
 1899 Mar. 16. BELANGER, ALEXANDRE. 66 Imperial Bldg., Montreal.
 1899 Mar. 16. BLACK, THOMPSON T. 45 Victoria St., Montreal.

1899 Mar. 16. BOWMAN, ARCHIBALD A New Glasgow, N.S.
1899 Mar. 16. BOYD, HUGH HARKNESS 31 St. Mark St., Montreal.
1899 Mar. 16. BUCHANAN, FITZ-HERBERT PRICE 210 Drummond St., Montreal.
1899 Mar. 16. BUFFETT, AARON FORSEY McGill University, Montreal.
1899 Mar. 16. BURGOYNE, STANLEY J 76 Shuter St., Montreal.
1899 Mar. 16. BURNETT, ARCHIBALD 19 Shuter St., Montreal.
1899 Mar. 16. BURSON, HERBERT A McGill University, Montreal.
1899 Mar. 16. BURWELL, E. VICTOR McGill University, Montreal.
1899 Mar. 16. BYERS, ARCHIBALD F 192 Peel St., Montreal.

1899 Mar. 16. CAMERON, HUGH DONALD 272 Laval Ave., Montreal.
1899 Mar. 16. CAMPBELL, GEO. HERBERT Quebec, Que.
1899 Mar. 16. CAPE, EDMUND G. M. 32 McTavish St., Montreal.
1899 Mar. 16. CARY, GEO. MARCUS 94 Union Ave., Montreal.
1899 Mar. 16. CLEMENT, SHELDON B. Clinton, Ont.
1899 Mar. 16. COLWILL, THOMAS J. Guelph, Ont.
1899 Mar. 16. COTE, LOUIS E. St. Hyacinthe, Que.
1899 Mar. 16. COTE, ONESIPHORE HORACE 122 St. Elizabeth St., Montreal.
1899 Mar. 16. COUSSIRAT, H. A. 171 Hutchison St., Montreal.
1899 Mar. 16. COWANS, FREDERICK 1025 Dorchester St., Montreal.
1899 Mar. 16. CURRIE, WM., JUN. 89 Union Ave., Montreal.

1899 Mar. 16. DARGAVEL, JAS. S. Elgin, Ont.
1899 Mar. 16. DAVIDSON, WM. A. 85 Union Ave., Montreal.
1899 Mar. 16. DEBLOIS, WM. H. 278 Mance St., Montreal.
1899 Mar. 16. DENIS, LEOPOLD 541 St. Andre St., Montreal.
1899 Mar. 16. DENIS, VAULMORE 78 St. Hubert St., Montreal.
1899 Mar. 16. DOSTERT, AUGUSTE 1110b DeMontigny St., Montreal.
1899 Mar. 16. DUBUC, ARTHUR 602 Sherbrooke St., Montreal.
1899 Mar. 16. DUCHASTEL DE MONTROUGE, JULES 2705 St. Catherine St., Montreal.
1899 Mar. 16. DUNCAN, G. RUPERT 2411 St. Catherine St., Montreal.

1899 Mar. 16. EWAN, HERBERT M. 1080 Sherbrooke St., Montreal.

1899 Mar. 16. FETHERSTONHAUGH, EDWARD P. 74 St. Matthew St., Montreal.
1899 Mar. 16. FINCH, H. J. WADSWORTH 39 Sussex Ave., Toronto, Ont.
1899 Mar. 16. FISSET, GEO. EDGAR 32 Visitation St., Montreal.
1899 Mar. 16. FLINT, WM. G. 6 McGill College Ave.,
Mon.

1899 Mar. 16. FORMAN, ANDREW S. 1146 Dorchester St., Montreal.
1899 Mar. 16. FRASER, CHAS. EDWARD 99a Canning St., Montreal.

1899 Mar. 16.	FRASER, DONALD CAMERON.....	50 Catheart St., Montreal.
1899 Mar. 16.	FRASER, JAS. WM.....	17 Hanover St., Montreal.
1899 Mar. 16.	FRASER, JOHN WM.....	20 Union Ave., Montreal.
1899 Mar. 16.	FRY, DAVID MERNER.....	McGill University, Montreal.
1899 Mar. 16.	GAGNON, ERNEST E.....	25 Melbourne Ave., Westmount.
1899 Mar. 16.	GILLEAN, R. HAMPSON.....	193 Mance St., Montreal.
1899 Mar. 16.	GISBORNE, LIONEL L.....	40 McGill College Ave., Montreal.
1899 Mar. 16.	GRIER, ARTHUR GORDON.....	24 Seymour Ave., Montreal.
1899 Mar. 16.	HAMILTON, GEO. MILNE.....	Y.M.C.A. Bldg., Montreal.
1899 Mar. 16.	HAMPSON, E. GREVILLE.....	302 Peel St., Montreal.
1899 Mar. 16.	HARDY, M. J. EDMOND.....	186 St. Hubert St., Montreal.
1899 Mar. 16.	HICKEY, JOHN V.....	90 Mackay St., Montreal.
1899 Mar. 16.	HIGMAN, ORMOND, JUN.....	231 McLeod St., Ottawa, Ont.
1899 Mar. 16.	HOWARD, RUPERT F.....	Lachine, Que.
1899 Mar. 16.	HYDE, GEO. TAYLOR.....	141 Crescent St., Montreal.
1899 Mar. 16.	HYDE, JAMES CLARK.....	34 Lincoln Ave., Montreal.
1899 Mar. 16.	JUDAH, FREDERICK R.....	1212 Dorchester St., Montreal.
1899 Mar. 16.	KERR, ALISON P. R.....	476 Mountain Ave., Westmount.
1899 Mar. 16.	LAMOUREUX, JOS.....	St. Sebastien, Que.
1899 Mar. 16.	LOWDEN, WARDEN K.....	1150 Sherbrooke St., Montreal.
1899 Mar. 16.	MCCONNELL, SAMUEL B.....	Lachine, Que.
1899 Mar. 16.	MCLEAN, WM. B.....	14 Hanover St., Montreal.
1899 Mar. 16.	MCLEOD, NORMAN M.....	McGill University, Montreal.
1899 Mar. 16.	MCMASTER, ARTHUR W.....	135 Crescent St., Montreal.
1899 Mar. 16.	MALO, EUCLIDE.....	71 St. Elizabeth St., Montreal.
1899 Mar. 16.	MILLER, ANGUS K.....	113 Metcalfe St., Montreal.
1899 Mar. 16.	MILLER, JAMES L. F.....	55 Beaver Hall Hill, Montreal.
1899 Mar. 16.	MONTGOMERY, GEORGE A.....	81 City Councillors St., Montreal.
1899 Mar. 16.	NELSON, GEORGE J.....	83 Forfar St., Montreal.

1899 Mar. 16. OSBORNE, JAMES E. K. 32 McTavish St., Montreal.
1899 Mar. 16. O'SULLIVAN, JAMES OWEN. Indian Lorette, Que.

1899 Mar. 16. PALMER, ERNEST E. McGill University, Montreal.
1899 Mar. 16. PATERSON, CHARLES S. 144 Drummond St., Montreal.
1899 Mar. 16. PEDEN, FRANK. 92 Park Ave., Montreal.
1899 Mar. 16. PERCY, H. MEREDITH. 3 Weredale Park, Westmount.
1899 Mar. 16. PROCTOR, GEORGE S. G.T.R., Montreal.
1899 Mar. 16. PYKE, GORDON MCT. 1250 Dorchester St., Montreal.

1899 Mar. 16. ROBERTSON, PHILIP W. K. 32 McTavish, St., Montreal.
1899 Mar. 16. RUST, HENRY P. Toronto, Ont.

1899 Mar. 16. SCHWITZER, THOMAS H. 486 Rideau St., Ottawa, Ont.
1899 Mar. 16. SHAW, JOHN A. 60 St. Luke St., Montreal.
1899 Mar. 16. SHEPHERD, HENRY LAWRENCE. 1251 Dorchester St., Montreal.
1899 Mar. 16. SIMS, HENRY B. Chief Engineer's Office,
C.P.R., Montreal.
1899 Mar. 16. SISE, PAUL F. 898 Sherbrooke St., Montreal.
1899 Mar. 16. SMITH, GEORGE B. 37 St. Mark St., Montreal.
1899 Mar. 16. SURVEYER, ARTHUR. 347 Lagauchetière St.,
Montreal.

1899 Mar. 16. VAN HORNE, RICHARD B. 917 Sherbrooke St., Montreal.

1899 Mar. 16. WALKER, FRANK W. 78 St. Matthew St., Montreal.
1899 Mar. 16. WENGER, EDGAR I. 63 Victoria St., Montreal.
1899 Mar. 16. WHITE, FRANK HERBERT. 298 Stanley St., Montreal.
1899 Mar. 16. WHITE, GERALD V. Y.M.C.A. Bldg., Montreal.
1899 Mar. 16. WHITLEY, HERBERT A. 288 Stanley St., Montreal.
1899 Mar. 16. WHYTE, JOHN S. 7 McGill College Ave.,
Montreal.
1899 Mar. 16. WILSON, ROBERT M. 113 Shuter St., Montreal.

1899 Mar. 16. YORSTON, LOUIS. 135 Mansfield St., Montreal.
1899 Mar. 16. YOUNG, WILLIAM McGEE. McGill University, Montreal.

The following were elected Corporate Members under the Quebec Act, Vic. 61, Chap. 32 :—

MEMBER.

1899 Feb. 14. PATTON, JAMES N. C..... 180 St. James St.,
Montreal.

ASSOCIATE MEMBERS.

1899 Feb. 14. AMIOT, P. E..... Vercheres, Que.

1899 Feb. 14. FARLEY, R. W..... Hull, Que.

1899 Feb. 14. GARDNER, ROBERT..... Montreal.

1899 Feb. 14. RUTHERFORD, STEWART F..... 61 Rosemount Ave.,
Westmount.

1899 Feb. 14. SMAILL, ALBERT E..... 31 Milton St., Montreal.

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